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IN LEAD

INDEX

FOUNDED IN 1802
J.M.THORBURN & CO.
53 BARCLAY STREET
THROUGH TO 54 PARK PLACE
NEW YORK CITY

THE HISTORY OF
THE

1800

1802 1919

J. M. THORBURN & CO.

IN presenting this, our 118th successive annual Catalogue, we have to thank our innumerable customers and friends for their patronage in the past, which we trust will continue in the future to our mutual advantage.

Our Seeds hold the record for being always *Reliable*. Over a century in business means something—and it does much to emphasize the reliability of our goods. The Thorburn experience—the Thorburn knowledge of what's what in seeds—the Thorburn reputation for fair dealing—these are your safeguards in buying.

Our catalogue has always received a considerable amount of study. The cultural directions and descriptions therein are concise and to the point. A Seed Catalogue is supposed to be principally a price list of the many and various items conveniently arranged; to embody therein all the necessary directions for successful cultivation of the large number of Vegetables and Flowers would be beyond the limits of a handy Catalogue—for further detailed information regarding cultivation, please write to us. We are preparing leaflets on the different subjects which we will be pleased to send on request. You can make up your order from the pages of our Catalogue with entire confidence in the exceptional quality of the products we are offering.

We would suggest that your order be made up as soon after the receipt of this catalogue as possible. It will help us to ship promptly, and it will help you by giving you your goods just when you want them. Placing orders late sometimes makes delays unavoidable.

The difficulties and delays in obtaining supplies from our European Growers, which still exists, as well as the shortage of many seed crops in our own country, make it more important than ever that orders should be placed as early as possible this year. We have endeavored to keep prices down as much as possible, consistent with the cost to us of our stocks on hand and expected.

We have the facilities for handling a vast amount of business, and your orders will receive the most prompt attention regardless of when they come.

Owing to the conditions at present prevailing in Europe, and the transportation difficulties, some kinds of seeds may again be late in reaching us this season. It also sometimes happens that certain articles are not ready when the bulk of the goods ordered is shipped. In such cases, rather than hold back the whole order, we send what is ready and keep a memorandum of what is to follow when available. It would be well to state with order if we may substitute equally good sorts for any ordered that we cannot supply. (See notice on page 12.) Customers would, therefore, in such cases, do well to await our advice or invoices before writing in regard to items not sent them.

If there is any information you want that is not given in this catalogue, write us about it. We will give all inquiries our careful attention.

May we have the pleasure of filling your order?

WE ASK THAT YOU READ THE NEXT PAGE BEFORE SENDING IN YOUR ORDER

United States Food Administration License Number G-23974

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ORDERS

Orders should be written on our order sheet or on a blank sheet separate from letter, *preferably in ink*, and, to receive prompt attention, should be **directed to the firm and not to individuals**. Orders from new customers should be accompanied by a remittance in the form of a Post-Office or Express Money Order, Bank Check or Bank Bills.

PRICES

The prices quoted are net, and do **NOT** include free transit, **EXCEPT FOR SEEDS IN PACKETS, OUNCES or QUARTER-POUNDS**, on which **WE** pay postage or expressage anywhere in the U. S.

SEEDS BY MAIL OR EXPRESS

If wanted by mail in the United States, add postage according to zone rate, as per table at foot; except for seeds ordered by the packet, ounce or quarter-pound, which we will mail free. By special arrangement with the express companies, we can ship seeds and bulbs at a reduction of about 25 per cent from the regular rates. In view of the greater safety, it will be found best to send parcels of 15 pounds or over by express, as packages are apt to get crushed in the mail. Seeds may be sent C. O. D. when **25 per cent of the amount is remitted with order**. Potatoes, onion sets, or other perishable articles, fertilizers or insecticides cannot be sent C. O. D.

PARCEL-POST ZONE RATES

Within the United States

Zone	Within	1st lb. or fraction	Additional lb. or fraction
1st...	50 miles of N. Y. City.....	5c.	1c.
2d...	50 to 150 miles of N. Y. City	5c.	1c.
3d...	150 to 300 miles of N. Y. City	6c.	2c.
4th...	300 to 600 miles of N. Y. City	7c.	4c.
5th...	600 to 1,000 miles of N. Y. City	8c.	6c.
6th...	1,000 to 1,400 miles of N. Y. City	9c.	8c.
7th...	1,400 to 1,800 miles of N. Y. City	11c.	10c.
8th...	1,800 and over miles of N. Y. City	12c.	12c.

Maximum weight, 70 pounds to 1st, 2d and 3d zones, and 50 pounds from the 4th zone upward.

Postage to Canada 12 cents per pound, or fraction thereof, maximum weight, 4 pounds 8 ounces.

NAME, ADDRESS, ETC.

We beg our correspondents to give us *on each order the correct name and address*; also to indicate

very precisely the means of carriage which they prefer **mail, express or freight**, and the office or railroad station which best serves their locality. In case these directions are not followed out, or if they are not sufficient, we ourselves shall of course choose the most advantageous and convenient means.

CULTURAL DIRECTIONS

These apply to the climate of New York and vicinity. For more northern and southern localities the necessary changes in time of sowing, etc., will readily suggest themselves to gardeners.

WARRANTIES

Seeds of best quality will sometimes fail through improper treatment. Thus, a small seed may be sown so deeply that the young plant cannot reach the surface. *More failures result from disregard of the conditions necessary to germination than from inferiority of the seeds used.*

These conditions are: A proper temperature, sufficient moisture and free access of air. Besides these, the soil must be in proper condition and present no physical obstacle to the growth of the young plant. If heavy rains have compacted the surface of the soil, and the sun has baked it to a hard crust, it will be impossible, even if all other conditions are favorable, for the seedling plants to force their way through it, and many perish from this cause alone.

Seeds differ greatly as to the temperature required for germination. Beets, Cress, Peas, etc., germinate rapidly at a temperature of 45 deg.; but if Melons and other seeds of that family, Bush or Pole Beans, and other plants of sub-tropical origin are sown under the same conditions, they will be apt to decay, as for their prompt germination they require a heat of at least 60 deg. For this reason many seeds fail yearly from too early sowing.

The second condition, proper moisture, is likely to be violated by an excess rather than by too small a portion. The proper amount is that which a well-drained soil will naturally hold.

Free access of air is all-important, and this is interfered with by an excess of water in the soil.

In germination, complex chemical changes take place in the seeds, in which the air performs an important part. A portion of the seed is consumed, carbonic acid gas being given off in changing the starch and other constituents of the seed into nutriment to forward the growth of the germ or embryo plant, which depends upon the contents of the seed until it forms roots below ground and leaves above, and is able to sustain itself.

Besides these conditions affecting the germination of the seed, the young plants, after they have made their way to the surface, are liable to various accidents: a sudden current of very cold air, or a continuous drying wind may check their growth or destroy them altogether.

In addition, there are numerous insects, both below and above ground, that may attack the plants, some of them being so small that they often destroy a crop before they are discovered.

We may also mention the well-known tendency of many vegetables to revert to their original types, notwithstanding the care of the seed-grower; the Yellow-Podded Wax Beans becoming green, the Yellow and White Celery becoming more or less green, dwarf Peas becoming running sorts, etc.

J. M. Thorburn & Co. give no warranty, express or implied, as to description, quality, productiveness or any other matter of any seeds, bulbs or plants they send out, and they will not be in any way responsible for the crop. If the purchaser does not accept the goods on these terms, they are at once to be returned.

J. M. THORBURN & CO.

53 Barclay Street, through to 54 Park Place, New York

ALL COMMUNICATIONS SHOULD BE ADDRESSED TO THE COMPANY

Telephone Nos. 6445 and 6446 Barclay. Private Exchange connecting all departments

DIRECTIONS FOR THE CULTIVATION OF VEGETABLES

TO SECURE a good crop of vegetables, three things are necessary, viz., a suitable soil, pure seed and clean culture. The exposure for a vegetable-garden should be south or south-east, or nearly so. The soil should be naturally rich and friable, a sandy loam being about the best. If the soil be stiff, it should be gradually mellowed by the free use of barnyard manure, or, if convenient, by the addition of sand. If wet, or inclined to hold an excess of moisture, it should be underdrained, preferably by tile, but if possible, a location should be selected naturally dry and free from surface water.

A dark-colored soil, or one supplied with a goodly portion of decayed vegetable matter, will produce the earliest crops. If the soil be shallow, it should be deepened gradually by plowing or spading an inch or two deeper each year, and not all at once by trenching or subsoiling, unless manure and money both be abundant. A sandy soil may be greatly improved by adding vegetable mold from the woods. To produce the best results, the vegetable garden should have at least one foot of good, rich soil. The roots of large trees should not be allowed to encroach on any part of the garden, though large trees, sufficiently far off, afford a valuable protection on the north and west.

If for any reason you think your soil is not right, consult your experiment station if necessary.

Mark the garden off into squares or beds of convenient size, to facilitate the practice of a rotation of crops, which is an important matter. As a rule, never let the same crop or kind of vegetable occupy the same bed or spot two years in succession. Potatoes, Onions and a few other things may form exceptions to this rule. Every year the beds must be warmed up by a liberal coat of manure, which should be thoroughly

mixed with the soil. From seeds sown in drills, larger crops from a given surface are grown, and cultivation is simple and comparatively easy. The space between the drills, and other special information, is given in the body of this catalogue; the least distance is named, in order to economize space; it might be increased in some cases to advantage. The ground should be frequently hoed, to kill the weeds and to keep the soil mellow; and the proper time to hoe is just when the weeds appear above the ground.

Much time may be gained by starting certain kinds of plants in a hotbed, or even in a coldframe, the latter being a convenient thing, even on a small place. The hotbed is chiefly intended for raising early Tomatoes, Eggplants, Peppers, Cabbage, Cauliflower, Lettuce, etc., but as all these plants can now be bought cheaply of this company at the proper time, the expense and labor of a hotbed may be dispensed with, especially on small places.

To prepare a Coldframe.—The coldframe is simply a frame set on the ground, no bottom heat being applied. It is banked up on the outside during the winter with salt hay, straw or coarse litter. The soil is prepared by forking in and thoroughly mixing to the depth of 10 to 12 inches a liberal quantity of old, well-rotted manure. The manure of an old hotbed is good for the purpose. The frame is prepared in the fall, and young Cabbage, Cauliflower and Lettuce plants are set out in it in time to get well established before very cold weather. Cauliflower and Cabbage should be set down to the first leaf, and the soil made firm around the plants. The seed is usually sown, in the vicinity of New York, from the 15th to the 20th of September, but the very early kinds some



A Section of Our Trial Grounds

DIRECTIONS FOR THE CULTIVATION OF VEGETABLES—Continued

8 to 10 days later. The young plants will be ready to transplant in about 25 to 30 days. During the cold nights and stormy days, the beds should be closely covered with the sashes, and these further protected by straw mats or shutters. Cauliflower needs more and closer protection than Cabbage, as it is rather more tender. During mild days admit air freely, the object being to keep the plants in a dormant state, without actual

freezing, so that when Spring comes they are in a forward state for setting out early crops. Seeds of Cabbage, Cauliflower, Lettuce and Radish may be sown in a coldframe in the Spring from the last week in February to the first week in March. The frame should stand in a warm and sheltered spot, and be kept from freezing by mats or a thick covering of straw during cold nights.

DIRECTIONS FOR MAKING A HOTBED

IN the vicinity of New York, from the first to the latter part of March is quite early enough to make a hotbed. The time must vary according to the latitude. Use fresh horse manure, and add to this, if possible, one-third to one-half of its bulk of leaves. Mix them thoroughly, tramping down the mass in successive layers, and form into a large pile, so that fermentation will proceed.

In two or three days fermentation will be apparent by the escape of steam from the heap. Now turn again, and allow the heap to remain until the second fermentation commences. Make a pit $2\frac{1}{2}$ feet deep, and of a size suited to the number of plants required. The pit will be better if built up of brick. It should be located in a dry, sheltered spot, facing the south or east, if possible. Hotbed sashes are usually 3x6 feet, and one or two sashes will give early plants enough for a small family. The frame of the bed should be 18 inches high at the back and 12 inches in front, which will give the proper slope to catch the sunlight. Crosspieces should be placed for the sashes to slide on, to facilitate opening and shutting the frames.

When everything is ready, the manure is placed in the pit

and trodden down firmly in layers to the required depth, 2 to $2\frac{1}{2}$ feet. Then put on the sashes and keep the pit closed until the heat arises. At first it will probably be 100 deg. or more, which is too hot to sow the seed in; but in two or three days it will subside to 90 deg. or a little less, when the soil may be put on to the depth of 6 to 8 inches. Try the heat by plunging a thermometer into the manure.

The soil should be of well-rotted sod (or common garden soil will do), mixed with about a third of fine old manure; and in this the seeds may be sown thinly in drills 2 to 3 inches apart, and afterward (as soon as out of the seed-leaf) either thinned out or else transplanted to another frame. Air must be given every mild day by raising the sashes at the back.

Water with tepid water whenever necessary, and during cold nights and snow storms keep covered with mats or board shutters. Tomatoes, Peppers and Eggplants should be sown in a separate frame from Cabbage, Cauliflower and Lettuce, as they require more heat. Hotbeds may be made on the surface of the ground, if the manure extends a foot wider on all sides than the frame.



Another Section of Our Trial Grounds

Novelties and Specialties in Vegetable Seeds

New Dwarf Green-Podded Snap Bean

Thorburn's Earliest of All, Long, Round Green Pod, Stringless. Very early, prolific and of finest quality, also a good forcer. Our trials show this to be the **earliest of all**, as the name we have given it indicates. Pkt. 15 cts., 1 lb. 60 cts.

New Green-Podded Beans

Dark Dun, or Liver Color. A fine, stringless variety. Pkt. 15 cts., 1 lb. 50 cts.

Dwarf Green-Podded Bean

MASTERPIECE (Sutton's). The plant is a robust grower, very prolific, the pods are straight, handsome, very tender, and stringless. Early and well adapted for forcing, an exceptionally fine green round podded variety. Pkt. 15 cts., 1 lb. 60 cts. (See also page 14.)

Thorburn's Gilt-Edge Cauliflower

Best and surest of all. Produces large, heavy, solid, white heads of finest quality. Undoubtedly the best variety. Pkt. 50 cts., oz. \$8.00, if obtainable.

Early Jersey Wakefield Cabbage

Thorburn's Selected Stock

Undoubtedly the finest strain of this most popular, well-known early Cabbage in cultivation. The heads are extremely solid, pyramidal in shape, with very little outside foliage. Pkt. 10 cts., oz. 80 cts., ¼ lb. \$2.50, lb. \$8.00.

Extra-Early Nordheim Sweet Corn

The earliest Sweet Corn in cultivation. Produces stalks from 6 to 7 feet high, each bearing three or four nearly perfect ears of finest quality. On style of Minnesota, but far exceeding that variety in the deliciousness of its flavor, as well as in earliness and productiveness. ½ lb. 35 cts., lb. 60 cts.

Golden Evergreen Sweet Corn

Late; very sweet round grains, beautiful table variety. ½ lb. 35 cts., 1 lb. 60 cts.

Cucumber, Thorburn's Noroton Selected White Spine

A selection of the Improved White Spine, but earlier, more perfect in shape and more prolific. The best slicing variety we have seen, being solid in flesh, fine-grained, tender and of delicious flavor. Vigorous, healthy grower. A splendid sort for the home garden, and absolutely without an equal for market. Pkt. 10 cts., oz. 15 cts., ¼ lb. 45 cts., lb. \$1.25.

Cucumber

Mammoth Long Green. An improved variety. Some specimens in our trial grounds were 21 inches long by 11 inches in circumference. Pkt. 25 cts.

Celery, Thorburn's Gilt-Edge Golden Self-Blanching

Golden Self-blanching is the variety of Celery par excellence, and we can recommend our strain with every confidence. The chief characteristics of this sort are its self-blanching qualities and the beautiful waxy yellow appearance of the stalks. It is of compact, heavy growth and produces stalks that are brittle and crisp in the extreme and hearts that are large and solid. Pkt. 20 cts., oz. \$1.00, ¼ lb. \$3.50, lb. \$12.00.

Thorburn's Big Boston Lettuce, Improved

Our strain of this well-known and most popular sort is without doubt the finest in existence. It is too well known to require any lengthy description. It is sufficient to say that it is equally valuable for growing in greenhouses for Winter use, in frames for Spring or for sowing the seed in the open ground for use in Summer and Fall. It is unequalled by any other variety for crispness and tenderness; produces large, solid heads with few outside leaves, and stands long before running to seed. See illustration of a head of Big Boston Lettuce Improved, on page 30. Pkt. 5 cts., oz. 20 cts., ¼ lb. 60 cts., lb. \$2.00.

Egyptian Deity Muskmelon (Persian Delight)

A new Melon of Casaba type, from South Africa, said to be very fine quality. Pkt. 10 cts., 30 cts., per oz. (See page 35.)

Dibble's Russet Potato

Recently introduced, said to be the best main crop Potato in cultivation (see page 43). Present prices, subject to change, $\frac{1}{2}$ pk. 70 cts., pk. \$1.00, $\frac{1}{2}$ bus. \$1.90, bus. \$3.50.

Bliss' Triumph Potato

We have secured a small supply of this old favorite Potato. It is very early and very productive. Round shape, red color; resists disease well. Good sort for the south. $\frac{1}{2}$ pk. 70 cts., pk. \$1.00, $\frac{1}{2}$ bus. \$1.90, bus. \$3.50.

Tomato "Noroton Forcing"

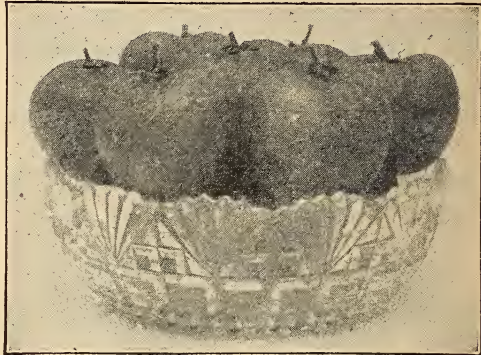
This new variety will be found to be valuable for the market gardener, as well as for private gardens. Color bright crimson, of uniform size, averaging about six to a pound. Solid, very prolific and of perfect form. Pkt. 10 cts., oz. 35 cts., $\frac{1}{4}$ lb. \$1.50.

Tomato—Thorburn's Improved Early Cluster

A valuable new variety, color bright scarlet, grows in bunches like grapes, each plant producing 100 to 150 Tomatoes of excellent quality. Pkt. 10 cts., oz. 35 cts., $\frac{1}{4}$ lb. \$1.50.

Potato Seed

Hybridized Potato Seeds, saved from **Potato Seed Balls**, will produce all colors, shapes and types; plant early in Spring and when 4 or 5 inches high transplant 2 feet apart, they will produce tubers the size of marbles, a few larger, the first year, and in three years attain their full development. Package with full directions, 10 cts. each, 5 for 50 cts., 15 for \$1.00.



Potato Balls

FLOWER SEED NOVELTIES AND SPECIALTIES OF MERIT

Antirrhinum, Feltham Beauty

(Snapdragon)

Tall, large-flowering. The largest-flowering Snapdragon as yet introduced, bearing very long spikes of enormous, deep rose-pink blooms, with white center. Pkt. 25 cts.

Antirrhinum, Orange Beauty

(Snapdragon)

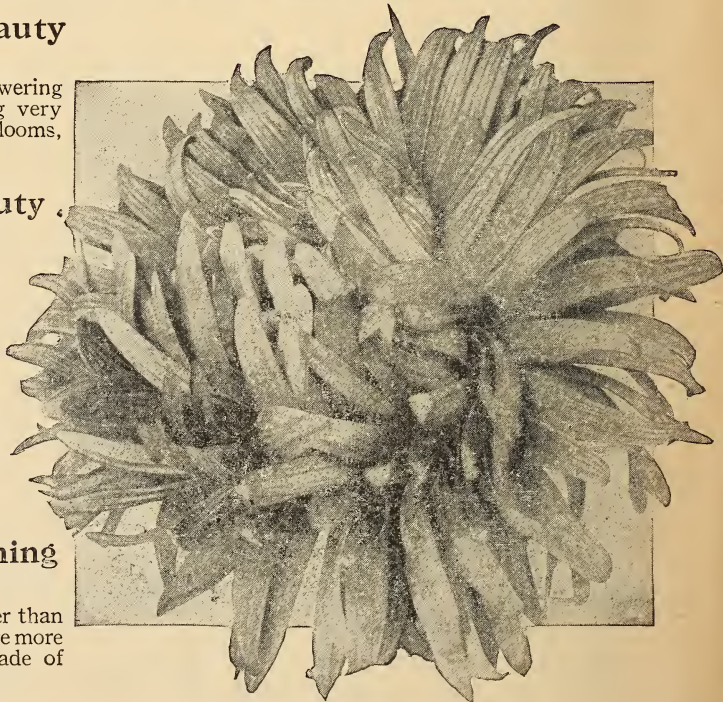
Tall large-flowering. A new, very large-flowering sort of a lovely orange-scarlet with gold tip. Pkt. 25 cts.

Aster, Hercules White

A new type of great merit. In form it is similar to the well-known "Ostrich Plume," but of dwarfer habit, it is a strong grower and produces very large flowers of a refined shape, pure glistening white. Per pkt. 25 cts.

Aster, Vick's Early Branching Rosy Red

A new color, darker than rose, lighter than Crimson, a beautiful rosy red. Plants are more vigorous and larger than any other shade of red. Pkt. 25 cts., two for 40 cts.



Aster, Vick's Early Branching Rosy Red



Calliopsis Radiata, "Tiger Star"

***Calliopsis radiata* "Tiger Star"** (hA)

A rich and continuously blooming annual, with peculiarly colored dark brown and golden yellow tigered flowers, the petals of which are curiously twisted like the cactus dahlia. Of easy culture, growing in ordinary garden soil, and producing its strikingly colored flowers in great abundance all Summer. Grows 8 inches high and forms a round, compact bush. The unique form and coloring of the flowers will appeal to those who like oddities. Pkt. 15 cts.

Calceolaria

(Covent Garden Strain)

Extra choice, recommended for habit, size and marking of flowers. Pkt. 30 cts.

New Cardinal Climber (hA)

(*Ipomoea Quamoelii* Hybrida)

This beautiful annual is the result of a cross between *Ipomoea coccinea* and the Cypress Vine (*Ipomoea Quamoelii*). It is one of the best introduc-

tions as regards an annual climber for many years. It is a strong and rapid grower, attaining a height of from 20 to 30 feet, and is of a branching habit. It flowers perpetually from July until frost, the foliage is deeply lacinated, and the flowers are borne in clusters of five to seven, and are of a fiery cardinal-red. It is well worth trying. Pkt. 25 cts.

Celosia Pompon

(Chinese Woolflower)

Brilliant Scarlet.....Pkt. 10 cts.

Chrysanthemum Maximum* *laciniatum

White Comet Marguerite

Of remarkable beauty, quite different from all other varieties, the petals of this novelty come in light, tufty waves, partly covering the yellow center of the flower, creating a graceful, charming effect. About 40 inches high, with long, strong stems; flowers abundantly in July and August. Pkt. 50 cts.

***Cosmos*, White Lady Lenox**

An exact counterpart in every particular, except as to color, of the favorite Pink Lady Lenox Cosmos. Well worth a trial by all lovers of these splendid annuals. Pkt. 15 cts.

Forget-Me-Not, *Myosotis* "Blue Eyes"

A strong-growing, free-blooming, compact variety; color bright blue. 12 inches. Pkt. 25 cts.

Giant Pink Moonflower

The Giant Pink Moonflower produces a luxuriant vine. It grows very fast and dense, with thorns all over stems. The blooms are about the size of a Brazilian Morning Glory. Pkt. 10 cts.

Leucanthemum secundum* *giganteum

***Praecox* "White Lady"**

This hardy white Marguerite is a very showy perennial; about 60 per cent of double flowers will be produced from seed. Excellent for cutting. Pkt. 25 cts.

Lupinus Polyphyllus

Lavender Queen

Very pretty lavender tinted rose. A lovely new shade. Pkt. 30 cts.

Lychnis Arkwrightii

A cross between L. Chalcedonica and L. Haageana, producing an abundance of bloom in many new and lovely colors. 1 to 1½ ft. Pkt. 25 cts.

New Double semi-dwarf Wallflower

The plants grow 18 inches high, colors ranging from golden yellow to brown and purple. Seeds saved from extra selected plants. Pkt. 25 cts.

Pansy

"Apricot Queen"

Distinct new bedding variety; very compact and free-flowering, of a pretty apricot, shaded yellow. Pkt. 25 cts.

Double Queen Poppies

A lovely strain of hardy annual Poppies. Abundant flowers of the Shirley type, but double. Of the most delicate and brilliant colors, ranging from palest pink to rosy scarlet, many charming selfs, others beautifully picoteed various red shades. Fine cut flowers. Pkt. 25 cts.

Primula Japonica

(The Hardy Japanese Primrose) (Veitch's)

In mixed colors. Primula japonica has, for a generation, been a favorite of those who love the

miscellaneous flower border. This mixture comprises every shade of color in primulas. Pkt. 30 cts.

Salvia Patens

This particular strain is exceptionally hardy, and has been saved from long established hardy plants. Pkt. 30 cts.

Stocks, Mammoth Ten Week

"Heatham Beauty"

A new and quite distinct color of pyramidal habit, with very large flowers of a rich mauve, shaded terra cotta. Pkt. 30 cts.

Schizanthus Wisetonensis

Grandiflora Hybrid

Mayblossom. Pale rose-pink and white. Free from any markings or darker tints. Dwarf compact pyramidal habit. Pkt. 25 cts.

Thermopsis Caroliniana

(St. Peter's Staff)

Pretty yellow, Pea-shaped flowers, adapting itself to almost any situation, but succeeding best in a light, rich soil. They are deep rooted plants and endure drought very well. Pkt. 15 cts.

Zinnia, Elegans robusta grandiflora

"Achievement"

Distinct from all other Zinnias, rich variety of colors, free and strong grower, producing abundance of double flowers; blooms attain a diameter of 5 to 6 inches. Excellent as a cut flower. Pkt. 30 cts.

Do You Need a Gardener?

At all times we have on our books the names of capable men in search of employment on private estates, farms and the like, and all persons in search for such men are cordially invited to call upon us at any time. Gardeners and Superintendents desiring positions are requested to call here, or drop us a line for application blanks.

Collections of Vegetable Seeds

Only the choicest sorts are put into the assortments, and they are picked out so as to give a continuous supply of vegetables from your garden all season.

The amount charged for these collections is considerably less than you would pay for the individual seeds, on account of the fact that we are able to put them up during the slack Winter months.

Owing to this, we **cannot permit any alterations in the varieties**, and the reduced price will not be allowed unless the collection is taken in full and without change.

VICTORY COLLECTION FOR SMALL GARDENS \$1.00 (Including Post-age in the U. S.)

1 carton of highest class seeds of easy cultivation, containing 1 pkt. each of

Green Beans

Wax Beans

Beets

Carrot

Golden Bantam Corn

Lettuce

Onion

Parsley

Peas

Radish

Spinach

Turnip

Swiss Chard

COLLECTION No. A, \$1.50 (Including free delivery in the U. S.)

This collection was gotten up primarily for rather small gardens, such as back-yard gardens and the like.

1 pa. **Beans**, Refugee Green-Pod.

1 " **Beans**, Golden Wax.

1 " **Beet**, Egyptian.

1 " **Cabbage**, Early Wakefield.

1 " **Carrot**, Half-Long.

½ lb. **Corn**, Early Bantam.

1 pa. **Cucumber**, Imp. White Spine.

1 " **Leek**, Best Flag.

1 pa. **Lettuce**, Big Boston.

1 " **Onion**, White Globe.

1 " **Parsley**, Extra Curled.

½ lb. **Peas**, Thorburn's Extra-Early Market.

1 pa. **Radish**, Scarlet Turnip.

1 " **Spinach**, Viroflay.

1 " **Turnip**, Snowball.

COLLECTION No. 1, \$4.00 (Including free delivery in the U. S.)

Gotten up for a family of two or three persons. It is a rather complete list of varieties.

½ lb. **Beans**, Refugee Green-Pod.

½ " " Golden Wax.

1 pa. **Beet**, Egyptian.

1 " " Globe.

1 " **Cabbage**, Early Wakefield.

1 " " Red, for pickling.

1 " **Carrot**, Half-Long.

1 " **Cauliflower**, Thor. Gilt-Edge.

1 " **Celery**, White Plume.

1 " **Corn**, Early Bantam.

½ lb. **Corn**, Cory.

1 pa. " Stowell's Evergreen.

1 " **Cucumber**, Imp. White Spine.

1 " **Eggplant**, Imp. N. Y. Purple.

1 " **Kohlrabi**, Early White.

1 pa. **Leek**, Best Flag.

1 " **Lettuce**, Big Boston.

1 " " Cos or Romaine.

1 " **Melon**, Long Island Beauty.

1 " " **Water**, Black Spanish.

1 " **Onion**, White Globe.

1 " " Large Red Globe.

1 " **Parsley**, Extra Curled.

1 lb. **Peas**, Thorburn's Extra-Early Market.

1 " " Wrinkled, Our Selec.

1 oz. **Radish**, Scarlet Turnip.

1 pa. **Spinach**, Viroflay.

1 " **Tomato**, Stone.

1 oz. **Turnip**, Snowball.

COLLECTION No. 2, \$10.00 (Including free delivery in the U. S.)

This assortment is suitable for a family of approximately five persons.

1 lb. **Beans**, Refugee Green-Pod.

1 " " Early Valentine.

½ " " Stringless Green-Pod.

1 " " Challenger Lima.

1 oz. **Beet**, Eclipse.

1 " " Egyptian.

1 " " Globe.

1 pa. **Cabbage**, Early Wakefield.

COLLECTION No. 2, \$10.00 (Continued)

- | | |
|--|--|
| 1 pa. Cabbage , Ballhead. | 1 pa. Melon , Water , Black Spanish. |
| 1 " " Thorburn Private Stock Flat Dutch. | 1 oz. Okra , Perkins' Improved. |
| 1 oz. Carrot , Half-Long. | 1 pa. Onion , White Globe. |
| 1 " " St. Valery. | ½ oz. " Large Red Globe. |
| 1 pa. Cauliflower , Thorburn's Gilt-Edge. | 1 pa. Parsley , Extra Curled. |
| 1 " Celery , Giant Pascal. | 1 oz. Parsnip , Hollow Crown. |
| 1 " " White Plume. | 1 lb. Peas , Thorburn's Extra-Early Market. |
| 1 " " Schumacher. | 1 " each Peas , Two Best Wrinkled, Our Selection. |
| ½ lb. Corn Early Bantam. | 1 pa. Pepper , Chinese Giant. |
| ½ " " Country Gentleman. | 1 oz. Radish , White-tipped. |
| ½ " " Metropolitan. | 1 " " Scarlet Turnip. |
| ½ " " Stowell's Evergreen. | 1 " " Scarlet Globe. |
| 1 oz. Cucumber , Imp. White Spine. | 1 oz. Salsify , Mammoth Sandwich Island. |
| 1 pa. Eggplant , New York Purple. | 2 ozs. Spinach , Viroflay. |
| 1 " Kohlrabi , Early White. | 1 pa. Squash , Early Bush Crookneck. |
| 1 " Leek , Best Flag. | 1 " " Hubbard. |
| 1 " Lettuce , Big Boston. | 1 " Tomato , Early June Pink. |
| 1 " " May King. | 1 " " Stone. |
| 1 " " Cos or Romaine. | 1 oz. Turnip , Snowball. |
| 1 " " Giant Crystal Head. | 1 " " Golden Ball. |
| 1 " Melon , Netted Gem. | 1 " " Thorburn Rutabaga. |
| 1 " " Long Island Beauty. | |

COLLECTION No. 3, \$18.00 (Including free delivery by express in the U. S.)

Will make an excellent garden for a farm or country estate desiring to put about one acre under cultivation for vegetables

- | | |
|--|--|
| 1 lb. Beans , Refugee Green-Pod. | ½ oz. Lettuce , May King. |
| 1 " " Early Valentine. | ½ " " Cos or Romaine. |
| 1 " " Golden Wax. | ½ " " Giant Crystal Head. |
| 1 " " Stringless Green-Pod. | 1 pa. Melon , Long Island Beauty. |
| 1 " " Challenger Lima. | 1 " " Netted Gem. |
| 2 ozs. Beet , Egyptian. | 1 " " Water , Black Spanish. |
| 1 " " Globe. | 2 ozs. Okra , Perkins' Improved. |
| 2 " " Blood Turnip. | 1 " Onion , Yellow Danvers. |
| 1 pa. Brussels Sprouts , Dalkeith. | 1 " " Large Red Globe. |
| ½ oz. Cabbage , Early Wakefield. | 1 " " White Globe. |
| ½ " " Thorburn Private Stock Flat Dutch. | 1 " Parsley , Extra Curled. |
| 1 " Carrot , Early French Forcing. | 2 " Parsnip , Hollow Crown. |
| 1 pa. Cauliflower , Thorburn Gilt-Edge. | 2 lbs. Peas , Thorburn's Extra-Early Market. |
| 1 " " Thorburn Snowball. | 2 " each Peas , Three Best Wrinkled, Our Selection. |
| ½ oz. Celery , Schumacher. | 1 pa. Pepper , Chinese Giant. |
| ½ " " White Plume. | 1 oz. Radish , White-tipped. |
| 1 pa. " Golden Self-blanching. | 1 " " Scarlet Turnip. |
| 1 lb. Corn , Early Bantam. | 1 " " Scarlet Globe. |
| 1 " " Cory. | 1 " " Chinese Winter. |
| 1 " " Country Gentleman. | 1 " Salsify , Mammoth Sandwich Island. |
| 2 " " Stowell's Evergreen. | ¼ lb. Spinach , Viroflay. |
| 1 oz. Corn Salad . | 1 oz. Squash , Early Bush Crookneck. |
| 2 " Cress or Pepper Grass . | 1 pa. " Hubbard. |
| 1 " Cucumber , Imp. White Spine. | 1 oz. " Boston Marrow. |
| 1 pa. Eggplant , Imp. N. Y. Purple. | 1 pa. Tomato , Early June Pink. |
| ½ oz. Endive , Green-Curled. | 1 " " Stone. |
| ½ " " Broad-leaved. | 1 oz. Turnip , Thorburn Rutabaga. |
| ½ " Kohlrabi , Early White. | 1 " " Snowball. |
| 1 pa. Leek , Best Flag. | 1 " " Golden Ball. |
| ½ oz. Lettuce , Big Boston. | 1 pa. each Herbs , Five Varieties. |

COLLECTIONS—Continued

COLLECTION No. 4, \$36.00 (Including free delivery by express in the U. S.)

If your needs require quite a quantity of fresh vegetables, and you have around three acres that you wish made into a garden, you could not do better than to buy this collection. There are quite a number of private estates and farms that are now doing away with the trouble of going through lengthy lists of vegetables suitable to their needs, and are leaving the matter to our judgment. This collection represents our recommendation as to just what should be used, with the exact quantities for planting approximately three acres, and getting the most out of the land.

2 lbs. **Beans**, Refugee Green-Pod.
 2 " " Early Valentine.
 1 " " Stringless Green-Pod.
 1 " " Challenger Lima.
 4 ozs. **Beet**, Eclipse.
 4 " " Egyptian.
 4 " " Globe.
 4 " " Blood Turnip.
 1½ " **Brussels Sprouts**, Dalkeith.
 1½ " **Cabbage**, Early Wakefield.
 1½ " " Savoy, Early.
 1½ " " Thorburn Private Stock Flat Dutch.
 4 " **Carrot**, Early French Forcing.
 4 " " Half-Long.
 4 " " Long Orange.
 1 pa. **Cauliflower**, Thorburn Gilt-Edge.
 1 " " Thorburn Snowball.
 1 oz. **Celery**, Schumacher.
 1 " " White Plume.
 1½ " " Golden Self-blanching.
 2 lbs. **Corn**, Early Bantam.
 2 " " Cory.
 4 " " Country Gentleman.
 4 " " Metropolitan.
 4 " " Stowell's Evergreen.
 1 oz. **Cucumber**, Imp. Long Green.
 2 " " Imp. White Spine.
 1½ " **Eggplant**, Imp. N. Y. Purple.
 1 " **Endive**, Green Curled.
 1 " " Broad-leaved.
 1 " **Kohlrabi**, Early White.
 1 " **Leek**, Best Flag.

1 oz. **Lettuce**, Big Boston.
 1 " " Cos or Romaine.
 1 " " Early Curled Simpson.
 1 " " Giant Crystal Head.
 2 ozs. **Melon**, Netted Gem.
 2 " " Long Island Beauty.
 2 " " Water, Blk. Spanish.
 4 " **Okra**, Perkins' Improved.
 2 " **Onion**, Yellow Danvers.
 2 " " White Globe.
 2 " " Large Red Globe.
 2 " **Parsley**, Extra Curled.
 4 " **Parsnip**, Hollow Crown.
 2 lbs. **Peas**, Thorburn Extra-Early Market.
 12 " " Three Best Wrinkled. Our Selection.
 1½ oz. **Pepper**, Chinese Giant.
 ¼ lb. **Pumpkin**.
 4 ozs. **Radish**, White-tipped.
 4 " " Scarlet Turnip.
 4 " " Scarlet Globe.
 2 " **Salsify**, Mammoth Sandwich Island.
 ¼ lb. **Spinach**, New Zealand Summer.
 1½ " " Viroflay.
 1 oz. **Squash**, Early Bush Crookneck.
 1 " " Hubbard.
 1 " " Boston Marrow.
 1½ " **Tomato**, Early June Pink.
 1½ " " Stone.
 1 pa. " Beauty.
 2 ozs. **Turnip**, Snowball.
 2 " " Golden Ball.
 2 " " Thorburn Rutabaga.
 1 pa. each **Herbs**, Five varieties.

CHOICE COLLECTIONS OF FLOWER SEEDS

(FREE BY MAIL)

Collection of 12 varieties of Dwarf Annuals , 1 packet each, as follows			93900	59 cts.
Asters, Mixed	Larkspur, Dwarf Rocket, Mixed	Phlox Drummondii, Mixed		
Candytuft, Mixed	Marigold, Dwarf French, Mixed	Portulaca, Single, Mixed		
Convolvulus, Dwarf, Mixed	Mignonette	Sweet Alyssum		
Eschscholtzia, Mixed	Nasturtium, Dwarf, Mixed	Zinnia, Dwarf, Mixed		
Collection of 12 varieties of Tall Annuals , 1 packet each, as follows			93920	50 cts.
Centaurea cyanus, Mixed	Larkspur, Tall Rocket, Mixed	Poppy, Mixed		
Clarkia, Mixed	Lupinus, Mixed	Scabiosa, Tall, Mixed		
Collinsia, Mixed	Marigold, African, Mixed	Sunflower		
Cosmos, Mixed	Malope, Mixed	Zinnia, Tall, Mixed		
Collection of 12 varieties of Dwarf Perennials , 1 packet each, as follows			93980	\$1.00
Alyssum saxatile compactum	Centaurea candidissima	Pinks, Mixed		
Arabis alpina	Daisy, Double, Mixed	Polyanthus, Mixed		
Campanula carpatia, blue	Gypsophila	Primrose, Yellow		
Candytuft sempervirens	Lychnis Haageana Hybrids	Snapdragon, Dwarf, Mixed		
Collection of 12 varieties of Tall Perennials , 1 packet each, as follows			93120	85 cts.
Aquilegia, Mixed	Gaillardia	Poppy, orientale		
Coreopsis	Galega	Scabiosa caucasica		
Delphinium, Mixed	Hollyhock	Sweet William		
Foxglove	Lupinus polyphyllus	Valeriana		
Collection of 12 varieties of Greenhouse Seeds , 1 packet each, as follows			93180	\$2.00
Asparagus plumosus nanus	Coleus, Fine Hybrids	Musk Plant		
Begonias, Single, Tuberous-rooted	Cyclamen giganteum, Mixed	Primula Malacoides		
Cineraria hybrida, Mixed	Heliotrope	Smilax		
Calceolaria hybrida. Large-flowered, Self-colored	Primula obconica grandiflora hybrida, Mixed	Stevia serrata		

See page 73 for Collections of Sweet Peas

Vegetable Seeds

Please notice that we pay postage or express charges on all garden seeds ordered by the packet, ounce and quarter-pound. If larger quantities are ordered to be sent by mail, add postage at zone rates.

See pages 9 to 11 of this Catalogue for COMPLETE COLLECTIONS OF VEGETABLE SEEDS of approved and choice sorts from \$1.00 to \$36, and page 11 for CHOICE COLLECTIONS OF FLOWER SEEDS.

OWING TO THE CONDITIONS AT PRESENT PREVAILING IN EUROPE, AND THE TRANSPORTATION DIFFICULTIES, SOME VARIETIES OF SEEDS MAY AGAIN BE LATE IN REACHING US THIS SEASON. UNDER THE CIRCUMSTANCES IT WILL BE WELL, THEREFORE, TO STATE WHEN ORDERING, WHETHER WE ARE AT LIBERTY TO SUBSTITUTE OR NOT. CUSTOMERS CAN DEPEND UPON OUR USING OUR BEST JUDGMENT IN SUBSTITUTING OTHER EQUALLY GOOD SORTS FOR THOSE ORDERED WHICH WE MAY NOT BE ABLE TO SUPPLY.

Artichaut

ARTICHOKE

Alcachofa

Culture.—Hardy perennial requiring protection in our climate. Deep, rich, sandy loam with plenty of well-rotted manure. Sow seeds $\frac{1}{2}$ inch apart in April or May, and when plants are large enough, transplant into rows 3 to 4 feet apart and 2 feet in the rows. They reach maturity the second year. When cold weather sets in, bank the earth to the top, first cutting off and tying up the leaves to protect the heart of the plant from soil, so that they will occupy less space, and in the spring uncover each plant and fork in a dressing of manure. Artichoke may also be treated as an annual by sowing the seed in hotbeds during February, potting the plants to avoid setting back and transplanting in May when frosts are past. Seedlings should give edible heads the same summer. The heads should be cut off and used as they get ready. If left to ripen on the plant, they will exhaust it, and no more will be produced that season. Heads are unfit for culinary purposes after the flowers expand.

French Green Globe. (Seed.) The standard sort.....110 Pkt. \$0 25 Oz. \$1 25

Jerusalem Artichoke Roots. Will grow in any soil that is not wet, but prefers a sandy, well drained soil. Plant whole tubers; if large, cut to two eyes. Plant as early as the ground can be worked. For best results take off all flowers; dig when tops die down. Requires a season of five months. Qt. 25 cts., per pk. \$1.50, per bushel \$5.00.

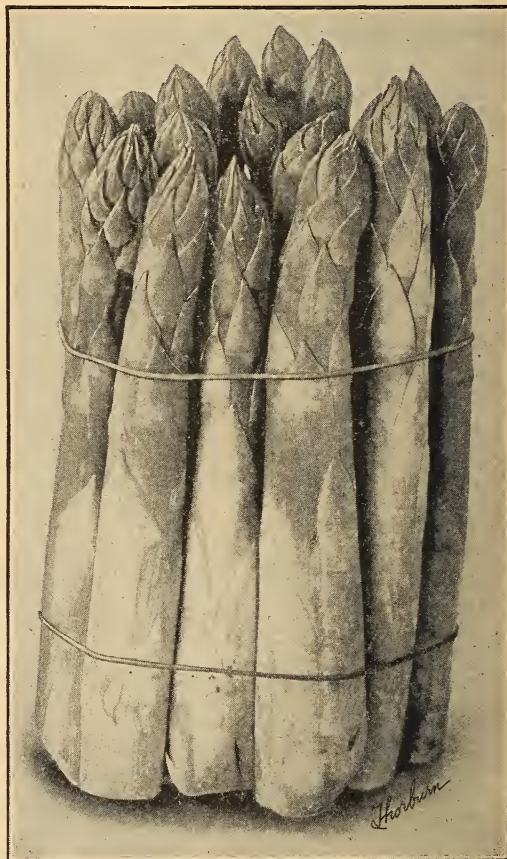
ASPARAGUS

Asperges

Esparrago

Culture.—Sow the seed thinly in rows 1 foot apart in April or May (4 or 5 pounds to the acre; 1 ounce will sow a 50 foot row), and keep down all weeds. To secure strong, healthy plants, thin the seedlings to 3 or 4 inches in the rows, saving only the strongest. The one-year-old plants should be set out in spring in rich, sandy loam, dug 18 inches deep, into which has been worked plenty of well-rotted manure. If a stiff clay soil is all that can be had, add plenty of sand and sifted coal ashes to loosen it up, and also see that it is well underdrained. In planting for private use, set out in beds 5 feet wide, three rows in a bed, the outer being each 1 foot from the edge, and allow 18 inches between the rows; set the plants from 4 to 6 inches below the surface, 2 feet apart. If set out in Autumn, top-dress with 6 inches of manure. For market, on a large scale, set out 4 by $1\frac{1}{2}$ feet. Every fall apply a good dressing of coarse manure, after the tops have been cut, and in Spring fork in. Never cut too closely. The roots need the benefit of some foliage during the year, else they will weaken and die. Slugs are easily destroyed by applying air-slaked lime or paris green. *Asparagus from seed does not always come true to name.*

	Oz.	$\frac{1}{4}$ lb.	lb.
Colossal. The approved standard sort. The famous <i>Argenteuil</i> of the French is identical with it.....170	\$0 10	\$0 30	\$0 90
Palmetto. Of Southern origin; a very desirable bright green Asparagus.....180	10	30	90
Bonaquette's Giant. An improved Palmetto, said to produce larger stalks.....190	10	30	1 00
Columbian Mammoth. Very large shoots..200	10	30	1 00
Giant Argenteuil. Popular variety in France, similar to Colossal, but larger stalks.....210	10	30	1 00



All 5 cents per packet Colossal Asparagus

We pay postage or express charges on all garden seeds bought by the packet, ounce or quarter-pound.

ASPARAGUS ROOTS

Plant either in the Spring or Fall

	50	100	1000
Colossal. 2-year-old roots.....	\$0 60	\$1 00	\$9 00
“ 3-year-old roots.....	1 00	1 50	14 00
“ 4-year-old roots. For forcing.....	1 25	2 00	18 00
Columbian Mammoth. 2-year-old roots.....	75	1 25	11 00
Barr's Mammoth. 2-year-old roots.....	60	1 00	9 00
Giant Argenteuil. 2-year-old roots.....	75	1 25	11 00
“ 3-year-old roots.....	1 00	1 50	14 00
Palmetto. 2-year-old roots.....	60	1 00	9 00

In France a business is now made of growing small, green, delicate shoots of Asparagus during the Winter. Strong roots may be forced in hotbeds out-of-doors. They should be packed closely into the frames, and by making a new bed every five or six weeks these tiny shoots may be had all winter and are valuable served with omelets, green peas, etc.

BEANS

As a farinaceous food for man, the Bean is considered far superior to any other legume, and next in importance to wheat. The modern varieties leave little to be desired; the great care given to their improvement has resulted in superior sorts, greatly extending the season of use, as well as varying the flavor.

Culture.—About the first of May, if the ground is perfectly warm, select a warm, dry sheltered spot, any good soil, preferably a moist, deep loam, not over rich in nitrogen, dig and manure very slightly; make drills 2 inches deep and 18 inches to 2 feet apart; drop the Beans 3 inches apart in the drills and cover not more than 2 inches deep. Hoe well in dry weather to keep down the weeds. Sow every two weeks up to about August 1st, for a succession. Two pounds or 1 quart to 100 feet of drill; 1 to 1½ bushels (60 to 90 pounds) to the acre, in drills.

DWARF GREEN-PODDED
SNAP BEANS

Haricots Nains

Frijoles

We supply packets of all Green-Podded Snap Beans at 15 cents each, postpaid, except where quoted otherwise; other quantities NOT prepaid; add postage at zone rates.

Thorburn's Earliest of

All. Long, round, green pod; stringless; prolific and of finest quality; also a good forcer, and as the name indicates, this is the earliest of all Dwarf Beans.....

1 lb. 2 lbs. 5 lbs.

\$0 60 \$1 00 \$2 25

Bountiful.

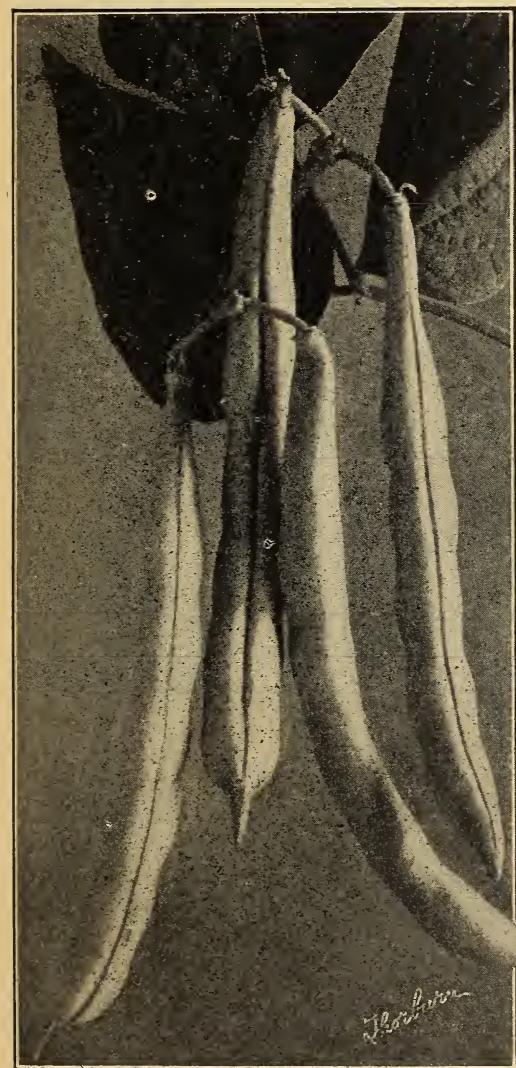
One of the best green pod sorts; extra early, very prolific and long-bearing; long broad flat, green pods, tender and stringless....

50 90 2 10

Dwarf Horticultural.

Late and productive; broad, flat stringless pods. It is also used as a Shell Bean.....

50 90 2 10



Thorburn's Extra Early Refugee Beans.

Full Measure. Large, round pods, firm, tender, sweet and entirely stringless.

Fine shipper and keeper.....

50 90 2 10

Green-Seeded Flageolet. Used as a *Shell Bean* when green for many exquisite French dishes, also good as a string Bean. Beans tender and of fine flavor.....

75 1 45 3 50

We pay postage or express charges on all garden seeds bought by the packet, ounce or quarter-pound.

DWARF GREEN-PODDED SNAP BEANS—Continued

	1 lb.	2 lbs.	5 lbs.
Longfellow. Long, straight, round, solid, green pods; very early; of good quality stringless when young.....	390	\$0 50	\$0 90 \$2 10
Low's Champion. Large, flat pods, stringless; fine flavor; early.....	400	50	90 2 10
Marvel of Paris. Long slender flat pods; early; very productive.....	410	50	90 2 10
Mohawk. Long, flat, straight pods; early; very productive and very hardy.....	420	50	90 2 10
Refugee Late, or 1,000-to-1. Medium to late, very productive and tender; long green, round pods of exquisite flavor.....	440	50	90 2 10
Refugee, Thorburn Extra-Early. Has all the superior qualities of the famous Refugee, and is fully two weeks earlier in podding. Pods round, light green, extra fine and borne profusely.....	450	45	85 2 00
Refugee, Stringless. Stringless at all stages of development.....	470	50	90 2 10
Six-Weeks, Long Yellow. Early; full, flat pods of good quality.....	480	50	90 2 10
Six-Weeks, Round Yellow. Full, green, roundish pods; early and productive; fine flavor.....	485	45	85 2 00
Stringless Green-Pod. Extra early; stringless; prolific dark green round pods; decidedly curved.....	490	50	90 2 10
Stringless Green-Pod Giant. Improved long-podded strain of above; light green.....	500	50	90 2 10
MASTERPIECE (Suttons). A superior green round-podded variety, very prolific; long, straight, stringless pods; very early, fine forcer. (See also Novelties.) Our stock of this exceptionally fine variety has given great satisfaction wherever tried.....	510	60	1 00 2 25
Valentine, Extra-Early. Hardy, vigorous and upright in growth; round, thick, solid pods; tender; fine flavor.....	520	45	85 2 00
Valentine, Black. Resembles the Valentine, but with black seed; long, round solid pods; very tender and of good flavor; very early and productive.....	540	50	90 2 10

ENGLISH DWARF BEANS**Fève de Marias***Haba*

Culture.—Sow in drills 2 feet apart, the Beans 3 to 4 inches apart in the rows, and 2 inches deep, as early in the Spring as the ground can be worked (these are as hardy as peas), in order to get them into pod before the heat of Summer. May be sown under glass in February and planted out when well hardened, as soon as the ground is fit, earthing up slightly against late frosts. When in pod, break off the top of the plant to check the growth. Plant and hoe the same as for Dwarf Beans. A strong soil suits them best.

Properly cooked, these Beans form one of the most delicious vegetables. To each half gallon of water allow one heaping tablespoonful of salt. The Beans should be young and freshly gathered. After shelling, put them into boiling water, salted as above. Boil rapidly for fifteen or twenty minutes, then serve with a sauce of parsley and butter. Boiled bacon is often served with the Beans. Add postage at zone rates.

	1 lb.	2 lbs.
Broad Windsor. Largest and best of the class.....	650	\$0.60 \$1 00
Sword Long Pod. A size smaller than Windsor.....	670	60 1 00
Mazagan. Earliest of the class.....	660	50 90

DWARF WAX BEANS

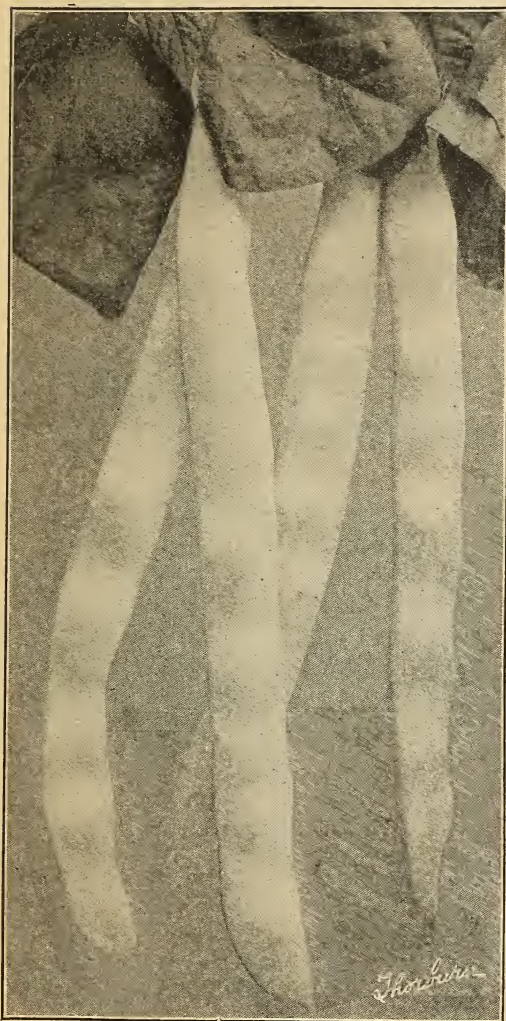
Culture same as on page 13

We supply packets of all Dwarf Wax Beans at 15 cents each, postpaid; other quantities NOT prepaid; add postage at zone rates.

	1 lb.	2 lbs.	5 lbs.
Black Wax, Improved Prolific. Very early and prolific. The pods are round, full, stringless and of fine quality.....	750	\$0 50	\$0 90 \$2 10
Black Wax, Currie's Rust-proof. Flat pods; early; productive and of fine quality; very desirable.....	770	50	90 2 10
Black Wax, Pencil-Pod. Slender, long, round pods.....	780	50	90 2 10
Davis Kidney Wax. Long, handsome, waxy white, flat pods; vigorous and upright in growth, holding pods well up from the ground.....	790	50	90 2 10
Detroit Wax. Very much like Golden Wax; flat pods; early, hardy and prolific.....	792	50	90 2 10
Golden Wax, Improved. Very early; flat pods; stringless; prolific, hardy and much less liable to blight or rust than the old Golden Wax.....	800	50	90 2 10
Golden-eye Wax. Hardy and prolific; flat, yellow pods; early and free from rust; vigorous and productive.....	820	50	90 2 10
Hodson Wax. Very large, brittle and tender flat wax pods; enormously productive; late.....	830	50	90 2 10

We pay postage or express charges on all garden seeds bought by the packet, ounce or quarter-pound.

DWARF WAX BEANS—Continued



Improved Golden Wax Beans

Refugee Wax, Thorburn's Stringless. A perfect Refugee, with brittle, round, wax pods; for early or late sowing; immense yield; late.	1 lb.	2 lbs.	5 lbs.
850	\$0 45	\$0 85	\$2 00
Round Pod Kidney Wax. (Brittle Wax) similar to Wardwell's Kidney, but with round pods.			
860	55	95	2 20
Sure-Crop Stringless Wax. Stringless, long, flat pods; abundant cropper.....	55	95	2 20
870			
Valentine Wax, Thorburn's. Round pod; prolific, solid and meaty; very fine quality when young; one of the earliest.....	50	90	2 10
880			
Wardwell's Kidney Wax. Early; long, flat, purely wax pods and of handsome appearance; stringless; of fine quality.....	60	1 00	2 25
890			
Webber Wax. Vine strong, holding pods well up from the ground. Pods small in size, curved, round, bright yellow; early and very prolific.	50	90	2 10
900			

DWARF LIMA AND DWARF WHITE BEANS

Culture.—Plant as soon as warm weather has fairly set in; soil should be light and rich; sow in drills 2 feet apart; the beans about 6 inches apart and covering about 2 inches. Two pounds to 100 feet of drill. Mulching keeps the pods from the ground.

We supply packets of these Beans at 15 cents each, postpaid; other quantities NOT prepaid; add postage at zone rates.

Thorburn's Dwarf Lima. (The True Kumerle Strain.) The dwarf form of our famous Challenger Lima—the finest of all Limas. It possesses the flavor of the genuine Challenger Lima. The Beans are extra large, and are a pure creamy white, very tender. They cook very mealy and form an excellent dish....	1 lb.	2 lbs.	5 lbs.
1000	\$0 60	\$1 00	\$2 25
Burpee's Bush Lima. A bush form of the large, flat Pole Lima, growing only 18 to 20 inches high. The Beans are borne very profusely.....	55	95	2 20
1010			
Burpee's Improved Bush Lima. An improved strain of Burpee's Bush Lima, having much larger pods and Beans.....	60	1 00	2 25
1020			
Fordhook Bush Lima. Immense pods and Beans; a strong grower and very prolific.....	60	1 00	2 25
1030			
Henderson Bush Lima, or Dwarf Sieva. Productive; Beans somewhat smaller than the others but of fine quality.....	60	1 00	2 25
1040			
New Wonder Bush Lima. Early and productive, similar to Burpee's Bush Lima.....	55	95	2 20
1050			
Wood's Prolific Bush Lima. The Early Sieva or Butter Bean of the South. Very productive.....	55	95	2 20
1060			
White Kidney. Excellent either green or ripe, as a shell Bean.....	35	65	1 50
1070			
" Marrow. Good either as a string or shell Bean.....	35	65	1 50
1080			

DWARF LIMA AND DWARF WHITE BEANS—Continued

	1 lb.	2 lbs.	5 lbs.
Red Kidney. Long, flat pods; prized for superior quality, both green and dry; fine variety for baking.....	1090	\$0 35	\$0 65 \$1 50
White Navy. The well known small White Bean used for "Boston Baked Beans."	1095	35	65 1 50
" Tepary (Field Bean). Very early and very productive; being a native of the arid Southwest, valuable for dry weather; cooks tender and of fine flavor. Plant 12 pounds to the acre.....	1100	35	65 1 50

POLE, or RUNNING BEANS**Haricots a Rames***Frijoles de Bejuco*

We supply packets of Pole Beans at 15 cents each, postpaid; other quantities NOT prepaid; add postage at zone rates.

Culture.—Sow as the soil becomes warm and dry, from the first part of May (for all except Limas) to the latter part of May, in hills 4 feet apart each way. Limas should not be planted until warm weather has fairly set in. One quart of Limas will plant about 100 hills, allowing four or five Beans to a hill, and of the smaller sorts, about 200 hills. Plant Pole Limas eye down, 2 inches deep. Poles 8 to 10 feet long should be firmly set in the hills before planting seed.

	1 lb.	2 lbs.	5 lbs.
LIMA THORBURN'S CHALLENGER. Thick and productive; best of all..	1200	\$0 55	\$0 95 \$2 20
" Carpinteria Pole. Large; thicker than ordinary Pole Limas; vigorous grower. Very large flat beans.....	1204	55	95 2 20
" Early Jersey. Very early; Beans large and tender and average three to a pod.....	1214	50	90 2 10
" King of the Garden. Large in pod and Bean; late.....	1230	50	90 2 10
" Large White. An old standard sort, highly esteemed.....	1232	50	90 2 10
" Leviathan. Early; very prolific and of excellent quality.....	1235	55	95 2 20
" Small Sieva or Carolina. Early.....	1250	45	85 2 00
Black Wax Pole. Yellow pods; productive and of good quality.....	1260	55	95
Dutch Case Knife. Pods long, green and flat; can be used either as a snap or shell Bean.....	1270	55	95 2 20
Golden Cluster Improved Wax. Long, golden yellow pods in clusters..	1300	50	90 2 10
Horticultural Pole. Good as a snap or a shell Bean, one of the old standards and still very popular.....	1280	50	90 2 10
Kentucky Wonder (Old Homestead). Pods green; very long and flat; exceedingly prolific.....	1310	50	90 2 10
Kentucky Wonder. White seed.....	1314	45	85 2 00
Scarlet Runner. The popular English Pole Bean, good for string Beans and ornamental.....	1340	55	95 2 20
Southern Creaseback. Long, round, stringless pods; fleshy, tender and of good flavor.....	1350	50	90 2 10
Yard-Long, French. Pods grow sometimes 2 to 3 feet long; very slender; curious; should be grown on pea brush.....	1390	60	1 00

FARMOGERM**The Original and Genuine Seed Inoculant**

A preparation of high-bred nitrogen-gathering bacteria in sealed bottles, ready for use with water added according to directions.

Specially prepared for **Garden Beans.** (See also page 65.)

Price per acre bottle, \$2.00; 5 acre bottle, \$7.50; garden size, 50 cts. per bottle.

MULFORD CULTURES**For Garden Beans**

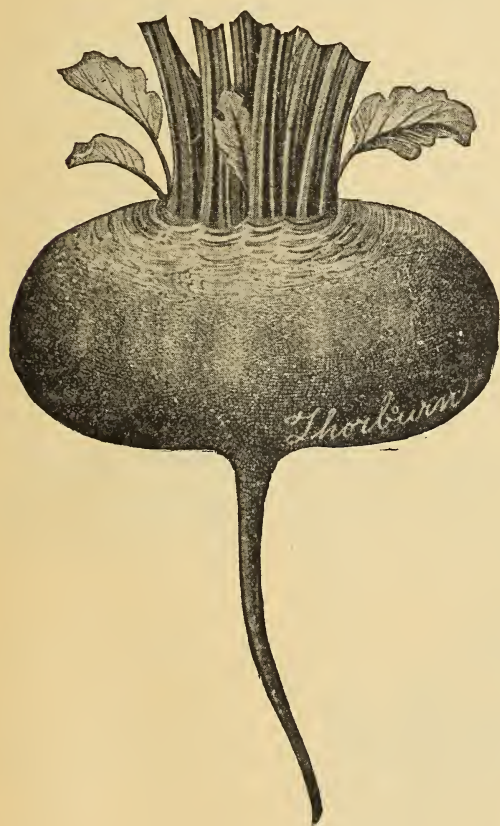
1 acre size, \$1.25; 5 acre size, \$5.00; small size, 25cts.

BEET

Betterave

Remolacha

Culture.—Sow as early in the spring as the ground can be worked (one ounce to 50 feet of drill, five or six pounds to the acre), and every two weeks after for a succession up to the first week of July. For general crop, sow about the middle of May. The soil should be light, sandy loam, well enriched with stable manure and plowed and harrowed until very fine. For Long Beets the soil should be rich and deep, well pulverized and not recently manured. The Turnip Beet matures in 60 to 75 days. The Long varieties require the whole season for their growth. Sow in drills 1 foot to 15 inches apart, and when well up, thin to from 4 to 6 inches. The young Beets with their tops, pulled out of the row, are excellent used as a spinach. For this purpose, sow frequently and use when of the size of a hickory nut.



Egyptian Beet (flat)

Bassano. Early; light color; good sort; very sweet.....	1500	Oz. \$0 25	¼ lb. \$0 75	Lb. \$2 50
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Crimson Globe. Globular shape; flesh rich, deep crimson; tender and sweet.....	1520	25	75	2 50
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Sutton's Globe. Early, especially on light soils; of high quality and handsome shape..	1530	20	60	2 00
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Detroit Dark Red Turnip. Round; skin dark blood red; flesh bright red.	1540	25	75	2 50
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Dewing Early. Of fine form and flavor; good for market.....	1550	20	60	2 00
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Early Blood Turnip. Dark red; fine flavor; good for winter.....	1560	20	60	2 00
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Eclipse. Early; round; bright red.....	1570	25	65	2 25
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Edmand Blood Turnip. A market-gardeners' strain; regular in shape and of best quality	1580	25	65	2 25
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Egyptian. Extra early; flat.....	1590	25	75	2 50
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Egyptian, Crosby's. Extra early; round; dark blood-color.....	1600	20	60	2 00
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Long Smooth Blood. (Out of ground.) A good late variety for winter....	1620	25	65	2 25
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Trevise (Columbia). Red; early; flat; tender. Fine sort for table.....	1644	25	65	2 25
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Witham Fireball. Brilliant red flesh; solid, sweet and crisp; fine quality; globe-shaped; very early.....	1650	25	75	2 50
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Swiss Chard, or Silver Beet. To be used same as spinach (see page 45)....	1690	25	75	2 50
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Swiss Chard, or Silver Beet, Lucullus. Large leaves; tender and of fine flavor; dark green; pure white ribs (see page 45).....	1700	30	85	3 00
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All 5 cents per packet

We pay postage or express charges on all garden seeds bought by the packet, ounce or quarter-pound.

MANGEL-WURZEL and SUGAR BEET

Culture.—As all Mangels require a deep rich soil in order to grow well, plow and subsoil at least 1 foot to 18 inches and apply plenty of rich stable or Our Complete Manure. Sow in May or June, in rows 18 inches to 2 feet apart, and thin to 8 to 12 inches in the rows. Young plants may be transplanted to fill up vacancies. Sow in addition, when the plants are 3 to 4 inches high, at the rate of 200 pounds of Complete Manure, 200 pounds of bone meal and 400 pounds of salt to the acre. As soon as frost occurs, dig the crop. In order to be well preserved for gradual consumption during the Winter, the roots should be heaped to a height of perhaps 6 feet, on a dry, sloping situation; cover at first with a piece of canvas, and as the cold increases, this should be replaced by about 6 inches of either salt hay, straw, seaweed or cornstalks, with a light layer of earth on top. As soon as this surface soil becomes frozen, about 6 to 8 inches more of earth should be placed over it. By following up this gradual process of covering, all danger of heating will be obviated, and the roots will keep in perfect order. *Sow from five to eight pounds to the acre.*

MANGEL-WURZEL

	Oz.	¼ lb.	Lb.
Giant Half Sugar. White; long ovoid; red skin, white flesh.....	1850	\$0 20	\$0 60 \$1 75
Golden Tankard Mangel-Wurzel. Large; bright yellow skin; handsome, sweet and productive.....	1870	20	60 1 75
Mammoth Long Red Mangel-Wurzel. Very large; enormously productive under careful culture.....	1910	20	60 1 75
Yellow Ovoid. Of distinct shape; one of the most productive sorts; flesh white, tender and sweet.....	1950	20	60 2 00

SUGAR BEET

We recommend five to ten pounds to the acre

	Oz.	¼ lb.	Lb.		Oz.	¼ lb.	Lb.
Klein Wanzelben.	2000	\$0 20	\$0 60	\$2 00	White, Green-Top	2030	20 60 1 75
Vilmorin Improved.	2010	20	60	2 00	Lane's Imperial	2040	20 60 1 75
White, Rose Top	2020	20	60	1 75			

BORAGE

Bourrache

Borraja

The young leaves of this annual, which smell somewhat like a cucumber, are used as salad, or boiled like spinach. Should be sown to the depth of ½ to 1 inch, at intervals, as the leaves are palatable only when young. Sow in the Spring, in light soil; transplant in shallow drills, a foot apart, when of six weeks' growth. 240. Pkt. 10 cts., oz. 30 cts., ¼ lb. 75 cts., lb. \$3.00.

BROCCOLI

Broccoli

Brocoli

Culture.—Sow early sorts as soon as the ground can be worked in the Spring, in shallow drills, drawn 3 or 4 inches apart. Plant out 2 feet apart each way when the plants are about 4 inches high. Cultivate same as cabbage, in rich, moist, and moderately deep soil, and use the same remedies for insect attacks. The inner leaves should be tied over the head as soon as formed. The following are sorts best adapted to this climate; they are excellent and deserve much wider culture than is usual in this country. One ounce will produce about 2,000 plants.

One ounce will produce about 2,000 plants.	Oz.	¼ lb.		Oz.	¼ lb.	
Early White	2100	\$0 50	\$1 50	Purple Sprouting	2122	30 1 00
Mammoth White	2110	50	1 50	St. James'. Late	2125	50 1 50
Purple Cape. Early	2120	50	1 50	Veitch's Self Protecting	2130	50 1 50

10 cents per packet

BRUSSELS SPROUTS

Chou de Bruxelles
Berza de Bruselas

Brussels Sprout is, without exception, the best winter vegetable that can be grown. It is as hardy as the common curled greens. The Sprouts, which are about the size of a marble and very firm, fairly melt in the mouth when just cooked through.

Culture.—For early crop, as soon as ground is fit, sow thinly ½ inch deep in seed bed with rows 1 foot apart. Thin to 2 inches or more apart; Transplant in June so that plants stand at least 1 foot apart and rows 1½ feet apart; for late crop proceed as above, except that seed is planted early in June, 1 inch deep, and is transplanted about August 1st. Rich loam is best. If soil is sandy, dig in compost around each plant or mulch to conserve moisture.



Brussels Sprouts

		Oz.	¼ lb.
Dalkeith. Of dwarf growth, producing large, solid sprouts.....	pkt. 10 cts.	2190	\$0 50 \$1 50
Aigburth. Compact heads; prolific.....		2195	50 1 50
Cambridgeshire Champion. Heavy cropper; fine quality; excellent sort for market.....		2200	60 2 00
Dwarf Improved		2210	50 1 50
Paris Market. Half Dwarf.....		2215	60 1 75
Sharpe's Standard. Finest tall variety, with large solid sprouts.....		2220	60 2 00
Scrymgers. Tall standard sort.....		2225	30 1 00

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Thorburn's Gilt-Edge Cauliflower

CAULIFLOWER

Chou-Fleur

Coliflor

Culture.—The same as for cabbage except that extra manure and plenty of water will pay upon Cauliflower. If the soil be dry, water frequently, and, if the plants have a heavy mulch of hay or straw, it will keep the soil moist, and they will not suffer from drought. Cauliflower can be grown for an early crop by starting the seed under glass late in February or very early in March. Prick out the seedlings once. Keep them stocky but do not stunt. Harden off to set out when the soil is in best condition in April. The late kinds may be planted out the same time as cabbage. It is also possible to get a late crop by sowing the early varieties in seed bed early in June, transplanting when about 5 inches high, giving the plants liquid manure or nitrate of soda.

When the heads form and begin to push aside the small leaves, tie the larger leaves together over the center leaving some loose, to exclude rain and sun; see that the worms have been previously exterminated.

	Oz.	¼ lb.	Lb.
Thorburn's Extra Early Dwarf Erfurt. The best and earliest for forcing; very dwarf and compact, with short stem and small leaves. The curd is very tender and exceedingly fine flavored. Should not be confounded with entirely different sorts advertised. Price, if obtainable.....pkt. 50c.	2250		
THORBURN'S GILT-EDGE. Large, heavy sort, maturing immediately after our Large Snowball. Best of all. See Novelties.....pkt. 50cts.	2270	8 00	
Large Early Erfurt. (Holland Grown.) For late crop.....pkt. 50cts.	2260	1 25	\$3 50
Thorburn's Extra-Early Snowball. Our strain of this popular variety is unequalled. It is one of the best for forcing under glass or for open ground. ....pkt. 50 cts.	2280	8 00	
Thorburn's Large Early Snowball. A large strain of the above. ....pkt. 50c.	2290	8 00	
Danish Giant, or Dry Weather. Later than Early Erfurt, pure white and of fine quality, said to be less affected by drought than any other variety. ....pkt. 50 cts.	2295	8 00	
Extra-Early Paris. Heads of medium size; first class variety. ....pkt. 25 cts.	2310	1 25	
Lenormand Short-Stem. Has very large heads; white and firm. ....pkt. 25 cts.	2320	1 25	3 00
Thorburn's Nonpareil. A first-class standard sort.....pkt. 25 cts.	2340	1 25	3 00
Early London. Large and hardy.....pkt. 10 cts.	2350	75	2 25
Early White Nocera. Short stem.....pkt. 10 cts.	2355	60	2 00
Early Giant of Naples......pkt. 10 cts.	2356	60	2 00
Late Giant of Naples......pkt. 10 cts.	2358	60	2 00
Autumn Giant. Vigorous in growth; very large; late.....pkt. 10 cts.	2360	75	2 25

We pay postage or express charges on all garden seeds bought by the packet, ounce or quarter-pound.



Thorburn's Early Jersey Wakefield Cabbage

CABBAGE

Chou

Col repollo

Culture.—Soil for Cabbage should be rich and heavy loam, with good drainage. On such a soil, with an abundance of stable or our Complete Manure, excellent crops are sure to be grown. For early Spring, sow in Fall not too early, for the plants are liable to bolt in the Spring, instead of heading. In a month the plants will be fit to transplant to coldframes, where they are wintered, taking care in planting to set the young plants down to the first leaves. Transplant in Spring as soon as the ground can be worked, setting the plants 2 feet apart one way and from 12 to 18 inches the other, according to the variety. If it is desirable to economize space, lettuce, or radish may be sown between the rows, as they will be out of the way before the Cabbage needs the room. For late or Winter crop, the seed is sown in May, and the plants set out in July. In this case, they are set in rows 2 by 3 feet, so as to work them with a horse and cultivator. One ounce of seed will produce 2,000 to 2,500 plants. To destroy the green worm, an experienced grower says: "Take one ounce of saltpeter and dissolve it in twelve quarts of water; then take a short-handled whisk-broom, dip it in the solution and sprinkle the plants well. One application is sufficient unless the stuff is washed off by heavy rains. The liquid being perfectly clear, never colors the cauliflower or Cabbage heads." To prevent the turnip flea attacking the young plants, sift fine air-slaked lime or tobacco dust over them as soon as they appear above ground. Against cabbage pests generally, keep down all weeds and burn the rubbish of the patch.

	Oz.	¼ lb.	Lb.
All Head. Very Early. Very solid. Large.....	2394	\$1 50	
All Seasons. An early Summer maturing variety; heads hard, round, flattened on top.....	2395	80	\$2 50

All 10 cents per packet, except where quoted otherwise

We pay postage or express charges on all garden seeds bought by the packet, ounce or quarter-pound.

CABBAGE—Continued

	Oz.	¼ lb.	Lb.
Copenhagen Market. The finest large, round headed, early Cabbage. Very solid; of fine quality; short stemmed.....pkt. 25 cts. .2390	\$2 00		
Danish Ballhead Winter. Very round, solid winter sort, largely grown in Denmark for the London market. A fine shipper. Pkt. 25 cts. .... .2397	2 50		
Early Spring. Extra early round flat head; medium size..... .2410	75	\$2 50	
Early St. John's Day. Very early flat; fine quality..... .2415	75	2 50	
Early York. The standard English sort. Splendid ..... .2420	1 25		
EARLY JERSEY WAKEFIELD, THORBURN'S SELECTED STOCK. Undoubtedly the finest strain of this most popular well known early Cabbage in cultivation. The heads are extremely solid, pyramidal in shape, and of most excellent quality, with very little outside foliage..... .2460	80	2 50	\$8 00
Charleston Wakefield. Large strain of the above..... .2464	1 00	3 50	
Enkhuizen Glory. Large, early, white, solid, ball-shaped heads. American grown..... .2470	1 00	3 00	
Early Flat Dutch, Stein's. For forcing or for general crop..... .2475	75	2 50	
Early Winnigstadt. A standard second-early variety; very hard heads. A valuable market Cabbage..... .2484	1 00	3 00	
Early Summer. Second-early; produces large, solid heads of finest quality and of fine flavor..... .2490	80	2 50	
Fottler's Brunswick. Of dwarf, compact growth; hard and solid heads. Good for both intermediate and Winter use..... .2500	1 00	3 00	10 00
Green Glazed. A distinct variety; leaves rounded, very firm and stiff; dark green and glazed all over; does not head very well..... .2505	50	1 50	
Succession Improved. Excellent second-early sort; large, solid heads; very popular second crop..... .2520	1 00	3 00	
Large Late Drumhead. Large sized variety; many leaves; dark green, waving at the edges; compact rounded; very late; good keeper..... .2530	1 00	3 00	10 00
Large Oxheart. Medium early; head large; obtusely conical; somewhat gray-green..... .2535	80	2 50	
Large Late Flat Dutch. A valuable sort for market. One of the best-known Winter Cabbages..... .2540	1 00	3 00	10 00
Thorburn's Market-Gardener's Private Stock Flat Dutch. Fine strain of the immense Winter Cabbage grown on Long Island for market. Of the finest quality and flavor..... .2560	1 00	3 00	
Schweinfurt Drumhead. One of the largest Cabbages. Medium early; head broad and flat; outer leaves pale green, often tinged with brown..... .2562	80	2 50	8 00
Sure Head, Flat Dutch Type. Heads large, round, flattened at the top; very firm; excellent shipper and desirable keeping variety..... .2564	1 00	3 00	10 00
Red Dutch. Popular pickling variety; large heads of finest quality..... .2610	75	2 50	
Red Spragues. Very large; dark color..... .2612	75	2 50	
Savoy, Early Ulm. Medium size, round, deep green heads; very early..... .2640	80	2 50	
Savoy, Green Globe. Large heads, very curled; late..... .2645	75	2 50	
Savoy, Tours. Short stem; head round, rather small, not very compact; very dark green, coarsely and broadly crimped..... .2646	80	2 50	
Savoy, Late Drumhead. Large, late, finely curled..... .2650	80	2 50	8 00
Chinese (Pe-Tsai), Commonly known in the markets as Celery Cabbage... .2660	50	1 50	5 00

All 10 cents per packet except where quoted otherwise

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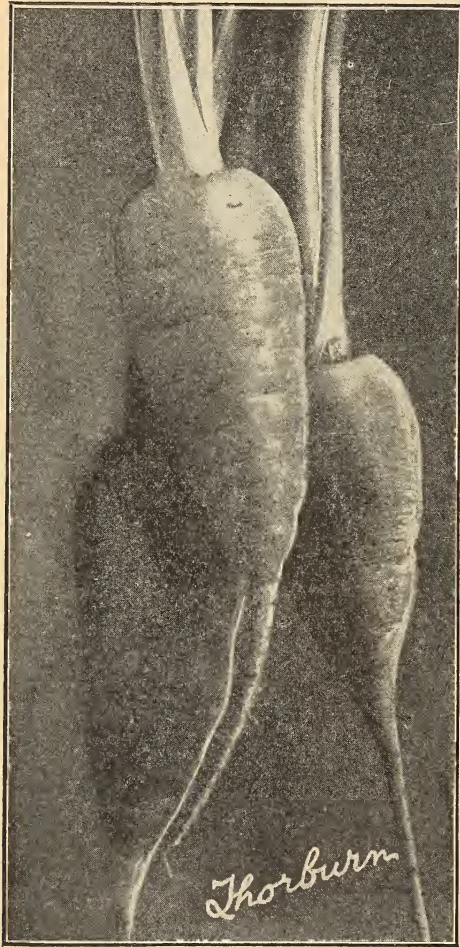
CARDOON

Cardoon

Cardo

Culture.—Sow early in Spring, ½ to 1 inch deep, in rows 3 to 4 feet apart, where the plants are to stand, and thin them, when well up, to 2 feet apart. Soil should be moist, rich, and deep. When full size, bind them together with bast or raffia, and earth up like celery to blanch. The stems of the leaves are used for salads, soups and stews. The stems may be wintered in a dark cellar away from frost.

Large Solid. Smooth; grows about 4 feet high; leaves nearly free from spines. Oz. ¼ lb. Lb.
pkt. 10 cts. .2770 \$0 40 \$1 25 \$4 00



Scarlet Horn

CARROT

Carotte

Zanahoria

Culture.—Sow No. 2890 as early as the ground can be worked; or, for late crop, until the latter part of July, or early in August for a Winter crop. [This is the finest and most tender for table use. For main crop sow other sorts from middle of May to the first of July. The soil must not be allowed to bake over the seeds as they germinate slowly. The seedlings are delicate and require careful cultivation until the tops cover the ground. Thin out early crop to 5 inches in the row, main crop, 6 to 7 inches. the rows 10 inches apart for early crop, 14 for main crop, Hoe often and deeply between the rows. Soil should be light, rich, and loamy, richly manured (but not recently, except for the short varieties), and deeply dug. Sow at the rate of two to three pounds to the acre; one ounce to 100 feet of drill. Carrot-tops cut from fairly young plants may be used for pretty indoor greenery. Put one cutting into each thumb pot, or three or four into a larger pot around the sides. Fairly good and sandy soil should be used, syringing frequently until growth is well forward. About 1 inch of Carrot should be left to put in soil, but this should be surrounded with soil or moss to hide it. When fully grown it is very pretty, the long fronds hanging over gracefully.

	Oz.	¼ lb.	Lb.	
Parisian Forcing. Early, tender and sweet; fine for early and late crops, also for frames.....	2890	\$0 25	\$0 85	\$2 50
Oxheart Half-Short (Guerande). Very thick and short.....	2920	25	65	2 25
Scarlet Horn, Early. Very thick roots; fine for frames....	2930	25	75	2 50
Half-Long Stump-Rooted. An excellent sort of good quality.....	2960	25	75	2 50
Half-Long, Stump-Rooted, Nantes Strain. One of the most popular sorts	2970	25	75	2 50
Chantenay, Half-Long, Stump-Rooted. Style of Nantes, broader shoulder	2990	25	75	2 50
Danvers Half-Long. Large; of good quality; productive.....	3020	25	75	2 50
St. Valery. A thick, intermediate long red.....	3030	25	75	2 50
Long Orange. Best for stock-feeding.....	3040	25	65	2 25
Long White Belgian. Very large; one of the best varieties for stock.				
.....pkt. 5 cts.	3070	20	60	1 75

All 10 cents per packet except where quoted otherwise

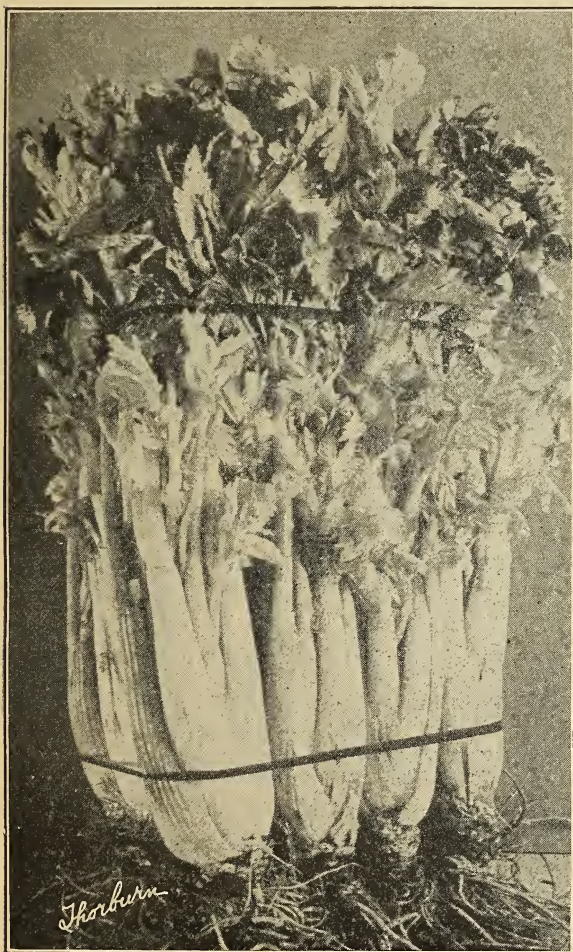
We pay postage or express charges on all garden seeds bought by the packet, ounce or quarter-pound.

Celeri

CELERY

Apios

Culture.—Sow the seed in a light, rich, dry border as early as the ground can be worked, in drills 8 to 10 inches apart, and cover the seeds about a quarter of an inch deep, rolling or treading them in if the ground be dry. 1 ounce will be sufficient for 2,500 to 3,000 plants. When fairly out of the seed-leaf, they may be transplanted to another bed, or they may be thinned out to 6 or 8 inches apart, and let grow until wanted to plant out in beds or trenches. The beds should be kept well weeded, and an occasional soaking with water in dry weather will do the plants good. Early in July in the North, a month or six weeks later in the Southern States, is the proper time to set the plants out in beds or trenches. Cutting the tops keeps them back. Cut off tap root when first transplanted, and press the soil firmly against the roots. In the garden the better way is to set the plants in shallow trenches. We say shallow, for it is obviously a bad plan to remove all the good soil (as must be done in a deep trench) and put the plants in that which is poor. The plants must be set in a single row in a narrow trench; or the trench may be made into a bed wide enough to hold two, three or four rows, 1 foot apart, and the plants about 8 inches apart in the rows, and in this case the plants are in compact form to be covered for the winter where they grow. This will save much labor where there is no root-cellar for storage, as often happens to be the case. The bed should be made very rich with thoroughly decomposed manure. The plants will need to be earthed up two or three times, the first time when the plants are four inches or more above the ground so that the stalks will protect the center from contact with the earth. Care should be taken not to let the earth get into the heart of the plant. In field culture, the plants are set on the surface in rows 4 feet apart when the Celery is to be earthed up in the field for early use, and 2 feet apart when the plants are to be taken up and blanched in the cellar for winter use. The plants are set 6 inches apart in rows. If not grown in beds, the best way to store is to dig trenches in a well-drained spot in the open ground 1 foot wide, and at a depth of a few inches less than the height of the Celery. The plants are then lifted and set close together. When severe cold weather comes on, cover gradually with leaves, hay or straw, and place boards on top. The turnip-rooted Celery (Celeriac) needs no earthing up, and may be planted in rows 1 to 1½ feet apart, the plants 9 inches apart in the rows, cutting off the tap-root when transplanting. Keep the earth from the heart of the plant in cultivating. Fertilize with nitrate of soda or liquid manure, lightly, after transplanting. When the knob-roots are well formed keep the suckers and side roots trimmed off. Early spraying with bordeaux mixture is extremely efficacious in case of Celery blight or rust.



Golden Self-Branching Celery, Thorburn's Gilt Edge

Oz. ¼ lb. Lb.

Improved White

Plume. Naturally white or light foliage requires but little banking up to blanch; very early and extensively grown for market..3210

\$0 45 \$1 25 \$4 50

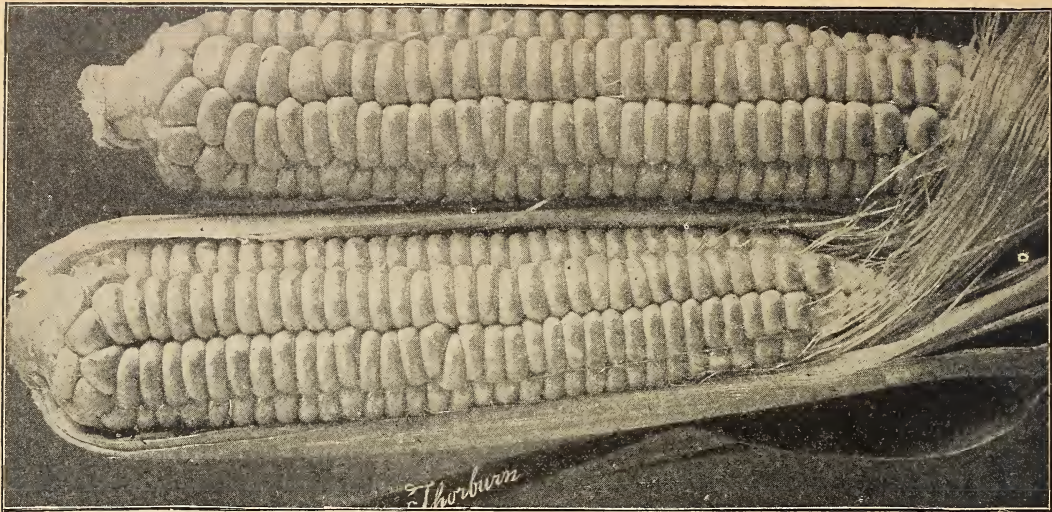
GOLDEN SELF-BLANCHING,

THORBURN'S GILT-EDGE. Our finest strain. pkt. 20 cts. .3230	1 00	3 50	12 00
Boston Market. The best for Winter use; a good keeper; quality excellent. .3235	40	1 25	4 00
Perfection Heartwell. One of the finest and largest of Winter varieties, either for family or market-garden. The heart is golden yellow. .... .3260	40	1 25	4 00
Schumacher. Solid and crisp; firm, golden yellow heart. .... .3270	45	1 25	4 50
Giant Pascal. An easily blanched and fine-keeping, large, late sort. .... .3300	40	1 25	4 00
Dwarf Golden Heart. Large, solid, crisp and tender, blanching white, hardy. .3305	50	1 50	5 00
Giant Golden Heart. Very large; solid and fine-flavored; vigorous grower. .3344	40	1 25	4 00
New Rose. Fine flavor; handsome variety. .... .3350	50	1 50	
Pink Plume. Same as White Plume, except that stalks are tinged with pink. Attractive; rich flavor and long-keeper. .... .3360	50	1 50	
Winter Queen. Very large, solid, green, winter sort; blanches well. .... .3384	40	1 25	4 00
Celeriac, Giant Prague. Very large roots, for soups and stews; when cooked and sliced makes fine winter salad. .... .3400	40	1 25	4 00
Celeriac, Apple. Has small foliage and small, smoothish roots; for soups. .... .3420	30	85	3 00
Celeriac, Extra-Early Paris. Smaller than the Large Smooth Paris; root clean skinned, regularly rounded in shape. .... .3430	45	1 25	3 00
Celeriac, Large Smooth Paris. Root generally broader than long and somewhat irregular in shape. .... .3440	40	1 25	4 00

Celeriac may be stored like beets, and will keep all winter

All 10 cents per packet except where quoted otherwise

We pay postage or express charges on all garden seeds bought by the packet, ounce or quarter-pound.



Golden Bantam Sweet Corn

CORN, SWEET or SUGAR

Culture.—As soon as danger from frost is past plant in hills 3 feet apart each way, and five or six kernels in a hill. In spring plant 1 inch deep; later plantings 1½ to 2 inches deep. Thin out to three plants in the hill, or if in rows, to 12 inches apart. Two pounds will plant 150 to 200 hills. Hoe often and draw soil up to stem; break off side shoots. Corn requires a warm rich soil and a sunny exposure. Plant for succession every two weeks until middle of July. If sown thinly in drills, a greater yield from a given surface will be obtained.

We supply packets of Corn at 15 cents each, postpaid; for other quantities, **NOT PREPAID**, add postage at the zone rates.

Most varieties can be furnished on ears at 10 cents each, transportation extra.

EXTRA EARLY

	½ lb.	1 lb.	5 lbs.	15 lbs.
THORBURN'S NORDHEIM EXTRA-EARLY. Earliest and finest of all. The stalks grow 6 to 7 feet high, each bearing three or four nearly perfect ears of excellent quality. The grains are large, white and very sweet				
.....	\$0 35	\$0 60	\$2 75	\$7 75
Early Mayflower. Extra early; large ears; sweet and tender	25	45	2 00	5 50
Early Red-Cob Cory. A very early variety with good-sized ears. Very sweet, tender and of fine flavor	25	45	2 00	5 50
.....	25	45	2 00	5 50
White Cory. Resembles the ordinary Cory, but with white cob	25	45	2 00	5 50
Mammoth White Cory. Ears double the size of the old Cory, and better in flavor	25	45	2 00	5 50
.....	25	45	2 00	5 50
Metropolitan. Large, handsome ears of fine quality; very early. A splendid market variety	25	45	2 00	5 50
.....	30	50	2 25	6 00
Golden Bantam. Extra early; yellow; very sweet and tender				
.....				
Seymour's Sweet Orange. A vigorous grower, attaining a height of 6 to 7 feet, and producing generally two good-sized ears to a stalk. It matures about a week later than Golden Bantam and is fully equal to it in the deliciousness of its flavor	35	60	2 75	7 75
.....	25	45	2 00	5 50
Early Fordhook. Large ears; extra early; pure white	25	45	2 00	5 50
Peep-o'-Day. Very early, sweet and of delicate flavor	25	45	2 00	5 50
Minnesota. Nearly as early as Cory, but with larger ears	25	45	2 00	5 50
Perry's Hybrid. Very early for so large-eared a sort; fine quality	25	45	2 00	5 50
Kendel's Giant. Very early for so large-eared a variety; sweet and tender	25	45	2 00	5 50
.....				
Extra-Early Adams. Not a Sugar Corn, but grown for early use. Tender and sweet; fine for the table	25	40	1 75	4 75
Stabler's Early Pedigree. A fine corn	25	45	2 00	5 50
Early Dawn. Extra early. The stalks grow about 3½ to 4 feet high. The grain is white	25	45	2 00	5 50
.....				

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SECOND-EARLY, or INTERMEDIATE

	$\frac{1}{2}$ lb.	1 lb.	5 lbs.	15 lbs.
Crosby. Matures after Minnesota; fair sized ears of good quality....	3940	\$0 25	\$0 45	\$2 00
Golden Cream. Early; grain rich cream color; attractive; fine quality; very sweet and tender.....	3943	25	45	2 00
Howling Mob. An early corn of large size, white and sweet.....	3944	25	45	2 00
Long Island Beauty. Very early; large size; valuable market sort....	3945	25	45	2 00
Potter Excelsior, or Squantum. Good-sized ears of fine quality...	3950	25	45	2 00
Moore Concord. Of strong growth; ears large and well filled.....	3960	25	45	2 00
Early Adams. Grown extensively for market.....	3980	25	40	1 75

GENERAL CROP

Hickox Improved. Handsome ears; very white and of rich flavor...	4020	25	45	2 00
Stowell Evergreen. One of the most popular varieties.....	4040	30	50	2 25
Golden Evergreen. Late; very sweet, round grains; beautiful variety of most excellent quality.....	4050	35	60	
White Evergreen. Strain of Evergreen with pure white grains.....	4060	30	50	2 25

LATE SWEET CORN

Black Mexican. Very sweet, of superior flavor; grains black.....	4100	30	50	2 25
Late Mammoth. Rank in growth; large ears, rich and sweet.....	4120	30	50	2 25
Country Gentleman. A large selection of the Ne Plus Ultra, introduced by us in 1888.....	4140	30	50	2 25
SWEET FODDER CORN. (Larger quantities than 15 pounds, 25 cts. per pound).....	4180			4 00

FOR FIELD CORN AND POP CORN, SEE PAGE 62

CHERVIL

Cerfeuil

Perifollo

Culture.—Cultivate and use the curled variety of chervil like parsley. Sow as soon as the ground can be worked or at any time in the spring in shallow drills, 1 foot apart, in well prepared ground, preferably in a cool and moist situation; shady or northern aspect. Thin early to 8 or 10 inches in the row. Several cuttings can be made from the plant throughout the season.

Curled. Leaves used for flavoring soups and stews and for garnishing.....	pkt. 5 cts.	4240	^{Oz.} \$0 20
Plain. Like above, but not curled.....	pkt. 5 cts.	4250	20
Tuberous Rooted. A variety which has edible roots.....	pkt. 5 cts.	4260	25

CHICORY

	Pkt.	Oz.	$\frac{1}{4}$ lb.
Common or Wild. Used in <i>Barbe de Capucin</i> , a salad much made in France. Sown in June. The roots are transplanted in autumn into sand in a cellar. The young shoots form the <i>Barbe de Capucin</i>	4300	\$0 10	\$0 50
Witloof. Known in restaurants as French Endive. Sown about 1 inch deep in May and June in drills 15 inches to 2 feet apart, in good garden soil; 1 ounce to 100 feet. Transplant or thin to 6 inches; treat as endive, except that in late Summer or Fall it should be gradually banked up like celery. The stalks when blanched, make a delicious salad. It is also used by the French as a boiled vegetable.....	4310	10	50
WITLOOF ROOTS. For forcing and blanching. Largely used for salad, and also as a cooked vegetable. The roots may be forced in a dark, dry cellar on a mild hotbed made with fresh horse-manure; when this becomes hot cover with a layer of rich, light soil to a depth of one foot. As soon as the soil becomes warm plant the roots close together in rows, all crowns at same level, each row 6 inches apart. Cover with 8 inches of very light soil. There are also systems of hot water pipes used in place of manure for forcing this vegetable. Per 100 \$5.00, per 50 \$3.00, per 20 \$1.25.			1 50

SEE ALSO ENDIVE, THE CHICORY OF THE FRENCH, PAGE 29

COLLARDS

Culture.—Sow seeds in a rich moist soil as for cabbage, in June, July and August for succession. One ounce will give 2,500 to 3,000 plants. Transplant when a month old in rows a foot apart each way and hoe often.

		Oz.	$\frac{1}{4}$ lb.	Lb.
Georgia	pkt. 5 cts.	4380	\$0 20	\$0 60

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CORN SALAD, or FETTICUS

Mache

Macha o Valerianilla

Culture.—Sow during August or early in September, in drills $\frac{1}{4}$ inch deep and 6 inches apart, for spring use. If the weather is dry when the seed is sown, tread it lightly to insure germination. Soil should be light and warm, with previous manuring. Keep weeds down with hoe. Just before the winter cover thinly with straw or leaves. The leaves should be picked when half as large as lettuce. A second crop may be picked from the same plant.

	Oz.	$\frac{1}{4}$ lb.	Lb.
Large-seeded.....	4430	\$0 15	\$0 50
Small Seeded Dutch.....	4440	30	85
Spoon Leaved. Large dark green.....	4460	20	60
Market Gardener's Full Heart.....	4470	20	60

CRESS

Cresson

Bara o Mastuerzo

Culture.—Sow No. 4520 thickly in shallow drills, $\frac{1}{4}$ inch deep and a foot apart early in spring, every two or three weeks until warm weather, in good garden soil; if moist, cool, and rich, all the better. One ounce will sow 50 to 100 feet. Begin to sow again from the middle to the end of August every week or two for fall succession. It should be cut often and it will continue to grow. It is useful not only for salad, but for the breakfast table and for garnishing. Nos. 4555 and 4570 should be sown in damp soil; or, if a stream of water can be utilized, they will be much finer. They will also thrive well in damp hotbeds. Rightly managed, their culture is very profitable. To obtain early salad, it is a good plan to sow with Water Cress seed a strip 4 inches wide on the outer margin of a hotbed, inside the frame, where it is always cool.

	Oz.	$\frac{1}{4}$ lb.
Curled, or Pepper Grass.....	4520	\$0 10
Common, or Plain-leaved.....	4530	10
Golden Yellow Broad-leaved. Yellow. Mild and tender.....	4555	10
True Water Cress.....	4570	85

All on this page 5 cents per packet except where quoted otherwise

CUCUMBER

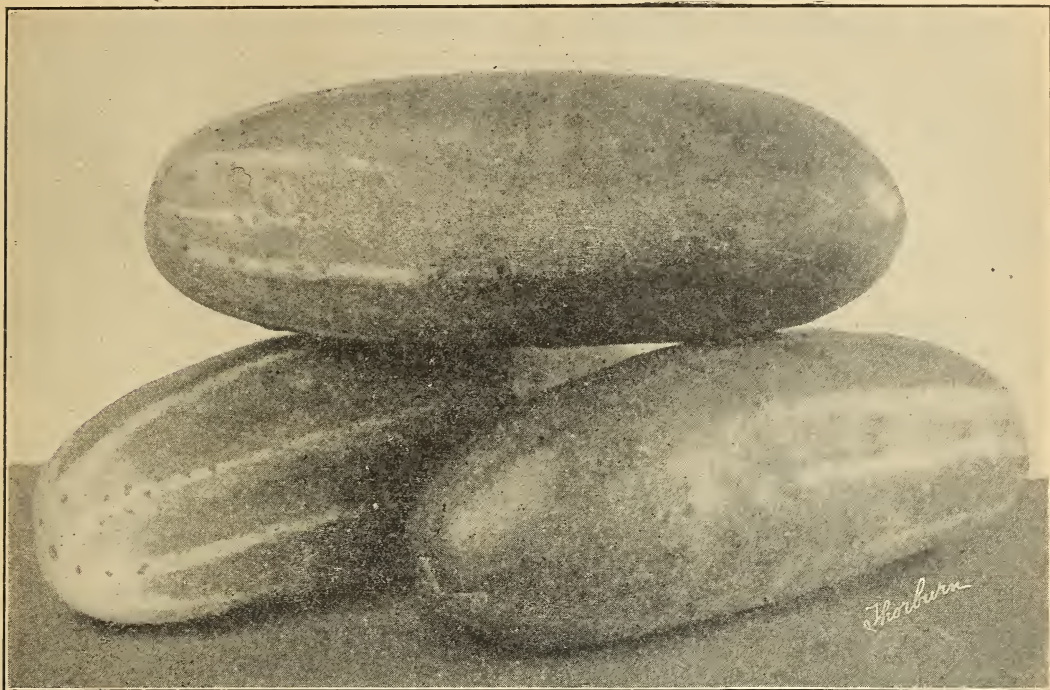
Concombre

Pepino

Culture.—For very early, sow in hotbeds upon pieces of sod, or in small pots. They can be readily transplanted with a gain of about six weeks over those sown in the open ground. Plant out in rich soil when danger of frost is over, or protect by hand-glasses, or by paper held down at the corners with a handful of earth. For general crop, sow in the open ground as soon as the weather is settled and warm, and every two weeks for a succession. Sow the seed about $\frac{3}{4}$ inch in depth. One ounce will do for 60 or 70 hills. Thin, leaving four or five of the strongest seedlings in a hill. For pickles, sow from middle of June to first week in July. Sod land, turned over in fall, is the best for them. Plant in hills 4 feet apart, putting a shovelfull of well-rotted manure in each hill. For mildew and wilting spray with Bordeaux. For beetles and other insect pests, spray with tobacco water and whale oil soap, reaching the under side of the foliage, or dust with tobacco dust.

	Oz.	$\frac{1}{4}$ lb.	Lb.
Cumberland. One of the best for pickling; handsome and productive; flesh firm, but very crisp and tender.....	4750	\$0 20	\$0 60
Davis Perfect. Fine for forcing or for outdoors. The fruit is long and straight, and being a comparatively shy seeder, is very valuable for slicing.....	4770	20	60
Early Green Cluster. Fruit small and in clusters; very prolific.....	4780	20	60
Early Russian. Very early, short; fine for pickles.....	4790	15	50
Giant Pera. Very long; one of the best for table use.....	4800	20	60
Fordhook Pickling. Very prolific; medium size; fine pickling strain.....	4810	20	60
Thorburn Everbearing. Small-sized; very early and enormously productive; valuable as a green pickler.....	4820	15	50
Cool and Crisp. Extra early and very prolific; long, straight, slender and very dark green; good either for pickling or slicing.....	4830	15	50
Early Short Green. Good for pickling; productive.....	4840	15	50
Fordhook Famous. Long, straight and well formed; vigorous grower, very productive; does not turn yellow.....	4850	15	45
Half Long Green. Very fine variety.....	4856	15	45
New Orleans Market. For forcing or open ground; very productive.....	4860	15	50
White Spine Extra Early. An extra-early strain of the popular White Spine.....	4864	15	50
" " Improved. A very handsome and uniform early variety.....	4870	15	45
" " Arlington. Fine either for forcing or for outdoors.....	4880	15	45
" " Klondyke. A desirable early dark green variety; very prolific.....	4885	15	45
" " Hill's Forcing.....	4886	15	45

We pay postage or express charges on all garden seeds bought by the packet, ounce or quarter-pound.



Thorburn's Noroton Selected White Spine Cucumber

	Oz.	¼ lb.	Lb.
White Spine THORBURN'S NOROTON SELECTED. A selection of Improved White Spine. Earlier, more perfect in shape and more prolific; best slicing variety; splendid either for home garden or market. pkt. 10 cts. .4890	\$0 15	\$0 45	\$1 25
" " Extra-Long, Perfected. A beautiful, large and well-shaped Cucumber..... .4900	15	45	1 25
Long Green, Improved. Long and crisp; a popular variety for pickles.... .4920	15	50	1 50
" " Turkey. Fruit very long and slim..... .4930	15	45	1 25
Green Prolific Pickling. One of the best for pickling; dark green..... .4940	15	50	1 50
Nichol Medium Green. Most symmetrical and a very fine table sort..... .4950	15	45	1 25
Tailby Hybrid. Very long, and superior for table use..... .4960	15	45	1 25
Japan Climbing. Good for frames or open ground..... .4970	15	45	
Small Gherkin. Very small burr; used for pickles.....pkt. 10 cts. .4980	25	85	3 00
Lemon Cucumber, or Garden Lemon. Almost round, yellow and green markings; tender and of sweet flavor. Like a lemon in appearance, pkt. 10 cts. .4990	25	85	3 00

All 5 cents per packet, except where quoted otherwise

ENGLISH CUCUMBER FOR FRAMES (Concombre especes / Anglaises pour couches)

Culture.—Sow seeds in October, November or December, according to the time they are wanted, in small pots, in fibrous loam, lightened and enriched with old manure; give plenty of air and water. Plunge the pots in a frame near the glass, where there is a little bottom heat, and keep them covered with brown paper until the seeds germinate. Afterward uncover and ventilate to insure sturdiness of habit. Only strong plants should be employed. It is necessary to fertilize the pistillate flowers with the staminate to render the vines productive as, owing to the absence of flies or bees, they will not produce a crop under glass as in open ground.

	Pkt.		Pkt.
Hurst's Monarch. Splendid sort... 5096	\$0 25	Telegraph. Free-bearing; handsome.. 5130	\$0 25
Marvel. (Hurst's.) Heavy cropper... 5110	25	Veitch's Sensation. Fine dark variety.	
Rochford's Market. Fine variety... 5120	25		5160 25

We pay postage or express charges on all garden seeds bought by the packet, ounce or quarter-pound.

Chicoree

ENDIVE, or CHICORY

Escarola o Endiva

Culture.—Sow in June, July or August, in good, rich garden soil; cover lightly; when up, thin out to 8 or 10 inches apart and water well, if dry; or sow under glass in March or April, transplanting and hardening off. Then set out in the open as soon as ground is fit. When the leaves are 6 to 8 inches long, blanch by tying together near the top with yarn or raffia. (They must be quite dry, or they will rot.) At the approach of winter, take up carefully, with a ball of earth to each plant, and place close together in frame or cellar. They must be kept dry and have plenty of air. One ounce of seed will plant 100 foot row.

		Oz.	¼ lb.	Lb.
Green Curled Winter. Standard sort for fall and winter crop.	pkt. 5 cts. .5210	\$0 20	\$0 60	\$2 00
Moss Curled. Compact plants with finely divided leaves.	pkt. 5 cts. .5215	25	65	2 25
Large Green Curled (de Ruffec). Broad ribs; fine for fall and winter.	pkt. 5 cts. .5220	20	60	2 00
" Curled (Pancalier). Fine, very large.	pkt. 5 cts. .5225	20	60	2 00
Giant Fringed or Oyster. New, has a large white heart.	pkt. 5 cts. .5227	25	65	2 25
White Curled. For early use.	pkt. 5 cts. .5240	25	65	2 25
Broad-leaved (Escarolle). A sweet variety; fall and winter.	pkt. 5 cts. .5230	20	60	2 00

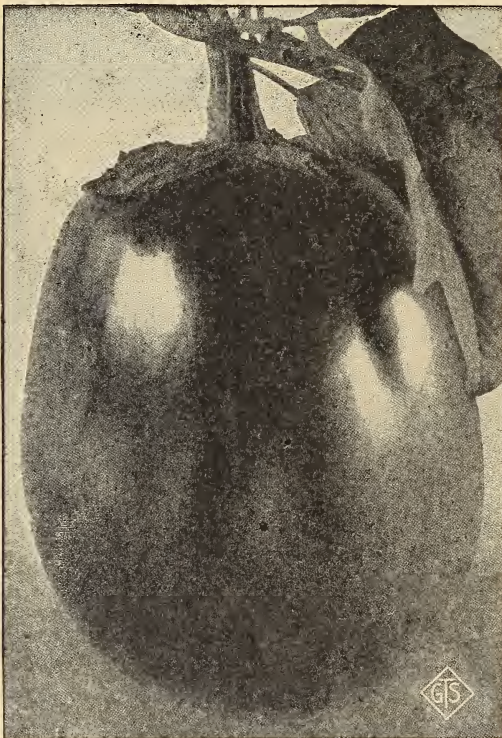
SEE ALSO WITLOOF (FRENCH ENDIVE) UNDER CHICORY, PAGE 25

Aubergine

EGGPLANT

Berengena

Culture. — Sow in hotbeds very early in spring and transplant when 2 inches high into a second bed or into small pots. If this is not done, thin to 4 inches apart. Do not plant out until weather is perfectly settled and warm. Cool nights or wet weather will check them. Soil should be a rich, sandy loam and exposed to the sun. One ounce will plant 2,000 plants or more. Keep some back in frames for a second planting, in case of weather changing unexpectedly. Set out plants 3 feet by 2.



Improved New York Spineless Eggplant

All 15 cents per packet

	Oz.	¼ lb.	Lb.
Improved New York Spineless. The standard; largest and best; oval; deep purple; early and productive.... 5310	\$0 75	\$2 50	\$9 00
BLACK BEAUTY. As large as the New York Improved but about ten days earlier; very rich purplish black 5320	80	2 75	10 00
Florida High Bush. Purple, though not so deep as the New York Spineless, which it resembles in shape. Productive, vigorous and can stand more cold than that variety..... 5340	60	2 00	7 50
Long Purple. Of distinct shape and fine quality. 5350	1 00	3 50	
Round Purple. Good quality, fine shape and color; good for market. 5360	75	2 50	9 00
Black Pekin. Round, blackish purple fruit; flesh tender, of fine flavor; dark foliage 5370	80	2 75	10 00
Long White China. Small and ornamental fruit, white; resembling an egg, turning yellow when ripe..... 5400	80	2 75	

FENNEL, FLORENCE or NAPLES

Fenouil de Florence

Fimocchio di Napoli

Culture.—Sow in spring, 1 to 2 inches deep, in rows 16 to 20 inches apart. Thin out so as to have the seedlings 5 or 6 inches apart and water as plentifully as possible. The plant is usually eaten boiled. In flavor resembling celery, but has a sweet taste and a more delicate odor. **14180.** Pkt. 10 cts., oz. 20 cts., ¼ lb. 60 cts., lb. \$2.00. (See also Herbs.)

We pay postage or express charges on all garden seeds bought by the packet, ounce or quarter-pound.

KALE or BORECOLE

Chou vert Frise*Col*

Culture.—Cultivated and grown exactly like cabbage. Sow No. 5600 in August and September for early greens, in rows 2 feet apart and thin to 18 inches or 2 feet in the rows. Sow seed $\frac{1}{2}$ to 1 inch deep. One ounce will do for 100 foot row. In very cold situations a light mulch may be required in Winter.

Curled Dwarf Green Scotch. Very dwarf and spreading; best strain; largely grown in the South, being sown in August and September.

Oz. $\frac{1}{4}$ lb. Lb.

pkt. 10 cts. .5600 \$0 40 \$1 25 \$4 00

Curled Tall Green Scotch. A taller growth of No. 5600.5610

45 1 35 4 50

Curled Siberian Thorburn Improved. Green curled; hardy

pkt. 5 cts. .5630

30 85 3 00

Emerald Isle. Very fine.

pkt. 5 cts. .5635

30 85 3 00

Thousand-headed. For cattle.

pkt. 5 cts. .5640

30 85 3 00

KOHLRABI

Chou-Rave*Colinabo*

Culture.—Sow in spring, about 1 inch deep, in rows 18 inches apart, afterward thinning the plants to 8 to 10 inches. If the weather is suitable the thinnings may be planted, but it is considered difficult to transplant. Soil should be same as for cabbage; a rich loam. Do not let the earth get into the heart of the plants and do not cover the thick stem or knob. One ounce will give about 1,500 plants. Keep the weeds down, and when the thickened stems above ground are 2 or 3 inches through they are fit to eat, and should be used at once, being tough when old. Cook same as turnips.

Early White. Handsome; very delicate in flavor.pkt. 10 cts. .5800

Oz. $\frac{1}{4}$ lb. Lb.

\$0 35 \$1 00 \$3 50

Early White. Fine every way. **For frames.**pkt. 10 cts. .5810

40 1 25 4 00

Early Purple. Purple ball; a very good sort.5820

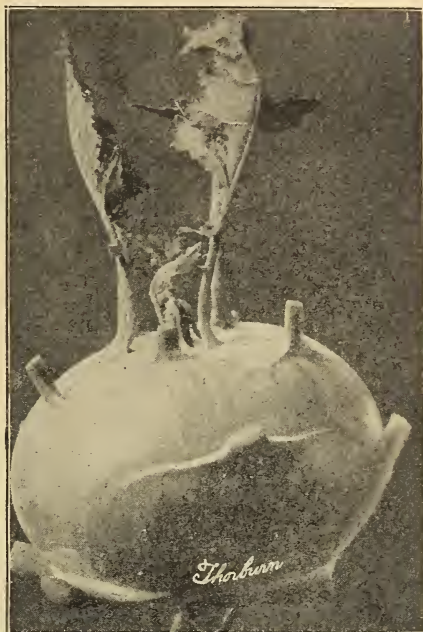
35 1 00 3 50

Extra Large White Goliath. Forms a large ball, not so fine in flavor, but more productive.5840

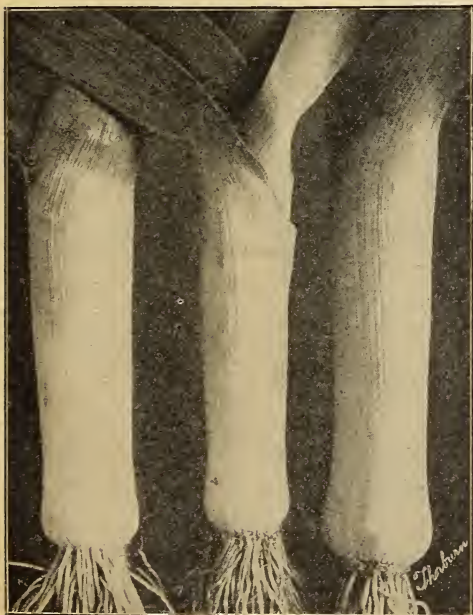
35 1 00 3 50

Imperial Green.5850

35 1 00 3 50



Early White Vienna Kohlrabi



Thorburn's Best Large Flag Leek

Poireau LEEK Puerro

Culture.—Sow very early in spring in drills 6 inches apart and 1 inch deep. One ounce to 100 feet of drill. Thin out to 1 inch. When about 7 inches high, transplant in rows 12 inches apart, as deep as possible, but do not cover the young center leaves. Water thoroughly if dry when planted out. Draw earth up to them as they grow; deep rich soil is required. Take up and store in earth in a cool cellar before winter weather. The seeds may also be sown in September and wintered under frames, and the young plants transplanted in spring to where they are to remain.

THORBURN'S BEST LARGEOz. $\frac{1}{4}$ lb. Lb.

FLAG. Hardy and productive.5910 \$0 50 \$1 50 \$5 00

Large Rouen. A standard sort; fine keeper.5920 50 1 50 5 00

Large Carentan. Distinct and dark-colored leaves; stout in habit and hardy.5940 45 1 25 4 50

Musselburgh. Similar to above.5950 45 1 25 4 50

Prizetaker. Very large.5960 50 1 50 5 00

New Italian Giant. Large and fine quality.5970 45 1 25 4 50

All 10 cents per packet except where quoted otherwise

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Thorburn's Big Boston Improved Lettuce

LETTUCE

Laitue

Lechuga

Culture.—Sow 6030, 6120, 6230, 6340 and 6350 in hotbeds in March, and these as well as all the other varieties, in the open ground as soon as it can be worked, and transplant in rows 8 inches apart and rows 1 foot apart. Sow in two weeks' time again for a succession; also Cos sorts. Latter part of August, sow any of the varieties. In October some of these may be planted in frames, in head in winter and early spring. One ounce is sufficient for 1,000 plants or 300 feet in rows. Sow ½ to 1 inch deep—if under glass, ¼ inch. Always sow thinly and thin out well, or the plants will not be strong. The last spring sowing had better be grown where sown, being thinned out to 6 to 8 inches apart. Cos Lettuce may be sown in a hotbed early in the year, and transplanted to a coldframe, so as to have good plants to set out at the opening of the ground. Lettuce requires good ground, enriched with thoroughly rotted manure, and well pulverized. The after culture should be close and careful, to secure the best results. Lettuce seldom, if ever, heads well in hot weather.

	Oz.	¼ lb.	Lb.
American Gathering. A decidedly crisp variety, strictly bunching. Leaves bright brown varying to bright green and very much blistered and crumpled. Large size late-intermediate in development..... 6020	\$0 15	\$0 50	\$1 50
Australian Gathering. A crisp bunching variety, large size; intermediate in development. Forms a well blanchd dense cluster of leaves, more or less open; never cabbage-like. Leaves crumpled and twisted. Color light green. Flavor very sweet 6025	15	50	1 50
Big Boston. Strictly cabbage-heading; large late-intermediate in development; fairly buttery flavor. Leaves broad, mostly smooth, very slightly blistered and crumpled. Light dull green, excepting extremely narrow light brown border. The heads are broad, slightly pointed and hard..... 6030	20	60	2 00
Buttercup. A cabbage-headed variety; small to medium in size; intermediate to late in development. The heads are globular in form. Leaves broad, slightly blistered and twisted. Color very light green..... 6040	20	60	2 00

All 5 cents per packet

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LETTUCE—Continued.

	Oz.	$\frac{1}{4}$ lb.	Lb.
Brown Dutch. A cabbage-heading variety, very buttery flavor, medium to large in size; late to intermediate in development. Head globular and firm. Leaves broad, fairly blistered and twisted. Color dull green, tinged with faint blotches. 6045	\$0 20	\$0 60	\$2 00
California Cream Butter. This is a strictly cabbage variety with a decidedly buttery flavor; large; late to intermediate in development. Head very firm, and globular in shape. Leaves slightly blistered and crumpled. Color dark, rich glossy green, distinctly spotted with deep brown. 6050	20	60	2 00
Crisp as Ice. Forms a slightly pointed head of small to medium size, decidedly buttery in flavor. Leaves broad, fairly blistered and twisted. Color a dark, almost solid brown in summer but bright green during spring. 6060	20	60	2 00
Deacon. Head large to medium in size; intermediate in development; globular or slightly flattened when fully developed. Flavor decidedly buttery; leaves broad, smooth, slightly blistered and crumpled. Color a peculiar light grayish green. 6070	20	60	2 00
Denver Market. A decidedly crisp variety; fairly cabbage-heading; large to medium in size; late to intermediate in development. Head oval, somewhat soft; leaves excessively blistered and crumpled and slightly twisted. Color very light green. 6080	20	60	2 00
Giant Crystal Head. A crisp variety, large and late. Head globular, extremely hard. Leaves broad, fairly blistered, crumpled and twisted. Color light green, excepting faint brown on borders of leaves. 6100	20	60	2 00
Giant Glacier. A cabbage-heading variety, decidedly crisp, very late and large. Head globular and somewhat soft but well blanched. Leaves coarsely blistered and crumpled and slightly twisted. Color very light green. 6115	20	60	2 00
Golden Queen. This is a strictly cabbage-heading variety, a buttery flavor; small to medium in size. Head somewhat pointed, well blanched. Leaves blistered, crumpled and twisted. Color beautiful rich, very light green, sometimes described as golden green. 6118	20	65	2 25
Grand Rapids Forcing. This is a bunching variety, decidedly crisp; early to intermediate in development. Forms a loose rounded cluster of leaves close enough together for blanching to only a small extent. Leaves excessively blistered and crumpled and slightly twisted. Color very light green. 6120	20	60	2 00
Hanson Improved. This variety is strictly cabbage-heading and decidedly crisp; very large and very late. Head globular; extremely hard and well blanched. Leaves broad, fairly blistered, crumpled and twisted. Color very light green. 6140	20	60	2 00
Hubbard Market. This is a cabbage-heading lettuce of decidedly buttery flavor, large to medium in size; early to intermediate in development. Head globular, very firm and well blanched. Leaves broad, slightly blistered, crumpled and twisted. Color medium green. Quality excellent. 6160	20	60	2 00
Iceberg. It is a strictly cabbage variety; crisp rather than buttery; large and late. Head is globular, extremely hard and well blanched. Leaves are slightly blistered, crumpled and twisted. Color light green except faint brown borders. Very good quality. 6170	20	60	2 00
Mammoth Black-Seeded Butter. This is a strictly cabbage-heading variety of a decidedly buttery flavor; large, intermediate in development. Head slightly oval, somewhat soft, well blanched. Leaves broad, much blistered and crumpled, and slightly twisted. Color light brown. Excellent quality. 6200	20	60	2 00
Maximum. A late maturing sort with very large cabbage-head and a very buttery flavor. The head is globular or oval, firm and very well blanched. Leaves broad, fairly smooth, being only slightly blistered, crumpled and twisted. Color dull dark green freely spotted with dark brown. Quality to be recommended. 6220	20	60	2 00
May King. One of the best known and most popular varieties; fairly new; strictly cabbage-heading and a buttery flavor. The heads are small to medium in size. Leaves light green, slightly tinged with brown at edge. It is especially good for outdoor culture. 6230	20	60	2 00
Mignonette. A cabbage-heading variety; fairly crisp; size small to medium; early to intermediate in development. Head globular, extremely hard, very well blanched. Leaves broad, excessively blistered, crumpled and twisted. Color dull; very dark brown with dull dark green in less exposed parts. Quality is excellent, being exceedingly tender, crisp and sweet. 6240	20	65	2 25
The Morse. This is a non-heading variety; crisp and much curled; large; light yellowish green. 6245	20	60	2 00

All 5 cents per packet

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LETTUCE—Continued

	Oz.	¼lb.	Lb.
New York Cabbage. This is a decidedly crisp variety, forming a very large cabbage-head of late maturity. Heads are globular or slightly oval, very hard and well blanched. Leaves broad, fairly blistered, crumpled and twisted. Color dark green. Quality very good, being sweet but never buttery in flavor..... 6250	\$ 25	\$ 75	\$2 50
Orchid. This is a true buttery variety forming a small to medium size cabbage-head, and late to intermediate in development. Head globular, slightly firm but well blanched. Leaves broad, fairly blistered and crumpled, and slightly twisted. Color bright green thickly spotted with bright brown. Quality is good. Flavor buttery and very sweet..... 6255	15	50	1 50
Philadelphia Dutch Speckled Butter. A variety of slight buttery flavor; fairly cabbage-heading; medium in size; early to intermediate in development. Plant is low growing; very flat at top, forming a solid well blanched head. Leaves are broad, crumpled and twisted. Color medium green tinged with brown and spotted..... 6275	15	50	1 50
Salamander Improved. A most popular variety. It is strictly cabbage-heading; of a buttery flavor, and of medium size. Color a medium green. Leaves slightly crumpled. Forms a good solid head. It does well under almost any weather and is a variety which we recommend for quality..... 6300	20	60	2 00
Shotwell Brownhead. This forms a distinctly cabbage-head, medium in size and intermediate in development. Head is globular, firm, well blanched. Leaves fairly blistered, crumpled and twisted. Color a medium dull green tinged throughout with faint dull brown. The quality is of the best, flavor decidedly buttery and sweet..... 6310	20	60	2 00
Early Curled Simpson. This variety is decidedly crisp; strictly bunching; large to medium in size but intermediate in time of attaining fullest development. Plant is spreading, covering a rounded, well blanched, dense cluster of leaves. Never cabbage-like. Leaves broad, much blistered and crumpled and slightly twisted. Color very light green. Very sweet flavor..... 6320	20	60	2 00
Black Seeded Simpson. A decidedly crisp variety, strictly bunching, sometimes tending to a cabbage-like growth; large; marketable early, but late attaining fullest development. It forms a firm, well blanched, rounded cluster of leaves closely drawn together. Leaves broad, much blistered, crumpled and twisted. Color very light green..... 6330	20	65	2 25
Tennisball White Seed. It is strictly cabbage-heading; small to medium in size; matures very early, and is of a decidedly buttery flavor. Head globular and well blanched. Leaves broad, blistered, crumpled and slightly twisted. Color dull medium green, sometimes brownish in distinct blotches. Quality excellent..... 6340	20	65	2 25
Tennisball Black Seed. A decidedly butter variety, cabbage-heading, large to medium in size, early to intermediate in development. Head globular, firm and well blanched. Leaves excessively blistered, crumpled and slightly twisted. Color light green. Quality excellent..... 6350	20	65	2 25
Wayahead. A cabbage-heading variety; buttery flavor; medium to small in size. Color dark green. Forms a very hard compact head and does well under all conditions. This is a very popular variety..... 6370	20	60	2 00
White Summer Cabbage Lettuce. A cabbage-heading variety. Heads large to medium in size; globular in form and very firm. It blanches very well and is of a decidedly buttery flavor. The leaves are slightly blistered, crumpled and twisted. Color medium green. Quality excellent..... 6390	20	65	2 25
Yellow Seed Butter. Forms a cabbage-head of medium size; late to intermediate in development and of a decidedly buttery flavor. Head globular, firm and well-blanched. Leaves are broad, much blistered and crumpled, and slightly twisted. Color light green. Quality excellent..... 6410	20	60	2 00
Wonderful. A crisp, not a buttery variety; leaves fairly blistered, twisted and crumpled; color dark green..... 6420	25	75	2 50

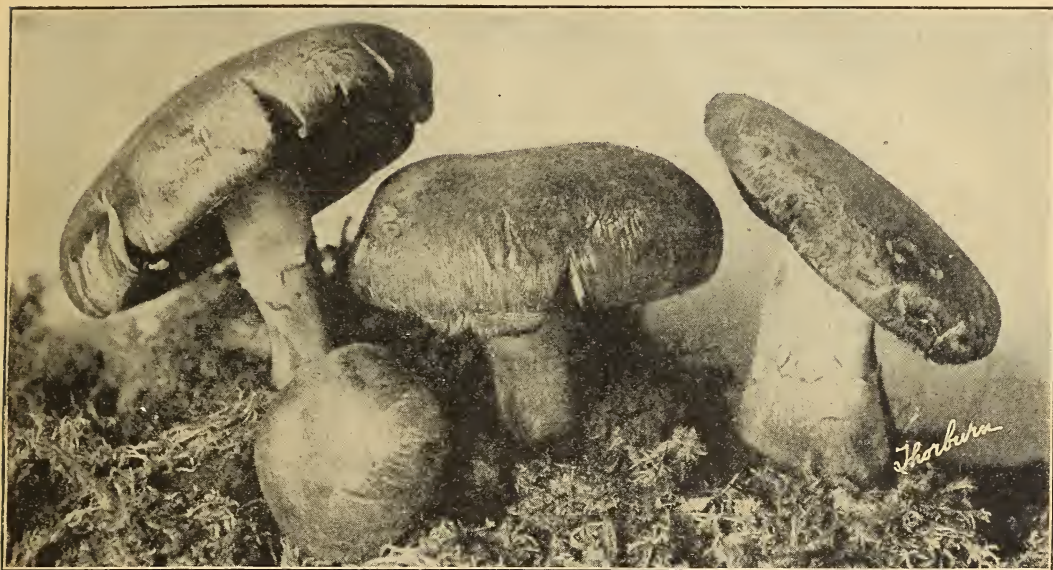
All 5 cents per packet

ROMAINE, or COS LETTUCE

Bath Cos. Pale green leaves, slightly tinged with brown. Outer leaves spreading, inner leaves well blanched, forming a soft globe-shaped head. Early and productive and of fine flavor..... 6440	20	65	2 25
White Paris Cos. Of upright growth; fine. Forms a well blanched head decidedly loaf-shaped. Color very dark green..... 6450	20	65	2 25
Trianon Cos. Resists heat well. Very compact plant forming a loaf-shaped head round at the top; well blanched; firm..... 6460	20	65	2 25
Balloon Cos. Fine sort. Closely resembles White Paris Cos, but larger... 6480	20	65	2 25
RED COS. Splendid French sort. Outer leaves red-brown; very attractive. 6500	20	65	2 25

All 5 cents per packet

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MUSHROOM SPAWN

Blanc de Champignon Seta

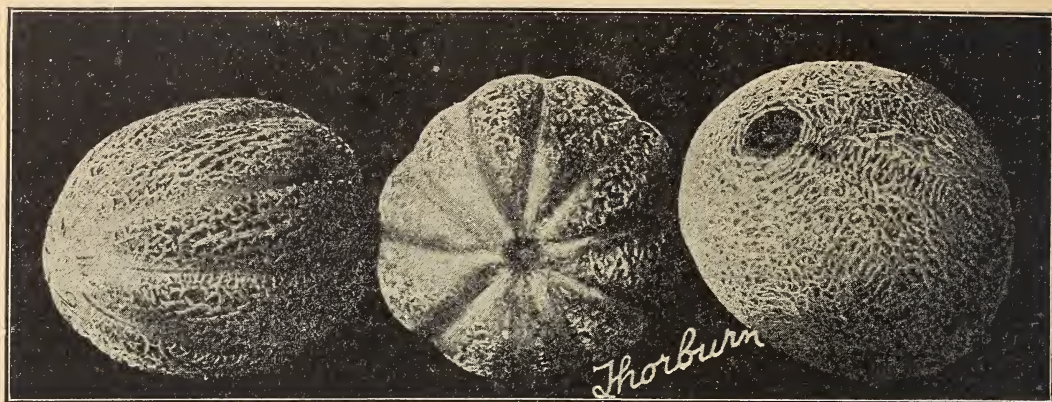
Culture.—Mushrooms may be grown in cellars, under benches of greenhouses, or in sheds, wherever the temperature of 50 degrees can be kept up through the winter. The beds should be made from November to February, according to the time the Mushrooms are wanted, and it requires about two months for them to begin bearing. Secure fresh horse manure, free from straw and litter, and mix an equal bulk of loam from an old pasture with it. Keep this under cover, taking care to turn it every day to prevent heating, until the pile is large enough to make a bed the required size. Three to 4 feet wide, 8 inches deep and any length desired are the proper proportions for a bed, but these may be varied. Prepare the mixture of loam and manure, making the bed in layers, and pounding down each with the back of the spade. Leave this to heat through for a few days, and as soon as the heat subsides to 90 degrees, make holes in the bed about a foot apart each way, and about one inch deep, into which put pieces of the spawn 2 or 3 inches in diameter; fill up the holes with the compost, and at the expiration of a week or ten days the spawn will have thoroughly diffused itself through the bed. Spread a layer of fresh soil over the heap to the depth of 2 inches and cover with 3 or 4 inches of hay, straw or litter. Examine the bed often to see that it does not get dry. Take special care, however, when water is given that it be at a temperature of about 100 degrees.

From our experience with English, French and American Spawn, we find there is an important difference between them. If the manure in the bed is in proper condition, the French Spawn will take hold and grow fully as well as the other two; but, if the bed is not in the right state, it will often rot. The American and English Spawns, on the contrary, after starting a little, will remain in a comparatively dormant state for a long time without losing their vitality. It is well to keep these points in mind in ordering Spawn.

		Per Brick	10 Bricks	20 Bricks	100 Bricks
American Pure Culture Spawn. Direct bricks; latest strain. Weigh about 1 lb. each.....	.6630	\$0 30	\$2 75	\$5 25	\$25 00
English Spawn. In bricks. About 1½ lb. each.....	.6635	25	2 25	4 00	18 00
French Spawn.....	.6640		about 2-lb. box, \$1 25		

If by mail, add postage.

We pay postage or express charges on all garden seeds bought by the packet, ounce or quarter-pound.



MUSKMELON

(Cantaloup)

Melon Muscade *Melon Muscatel*

Culture.—Select a light, rich, sandy soil, and, after all danger of frosts is over and the ground has become warm and dry, plant in hills 4 to 6 feet apart each way, six to twelve seeds to a hill. When up and all danger of insects has passed, pull out all but three plants. Cultivate until the vines cover the ground, and pinch the ends of the growing shoots to induce early fruiting. Ashes, lime, or even dry road dust, are excellent to sift over young plants when the dew is on, to prevent the attacks of insects. A few hills for early use may be had by sowing in hotbeds, on pieces of sod or in pots. The seed may also be started out-of-doors under hand-frames or glasses. It is quite important that proper soil be selected for growing Muskmelons.

SALMON AND YELLOW-FLESHED VARIETIES

	Oz.	$\frac{1}{4}$ lb.
Banquet. Beautifully netted, medium size; rich salmon flesh; fine quality.....	6790	\$0 25 \$0 80
Brockway's Sport. Slightly oblong, averaging 6 inches in diameter; flesh light red; very sweet; lightly ribbed and netted.....	7115	15 50
Burrell's Gem. Reddish orange flesh; fine-grained and spicy.....	6800	15 45
Davis White Seeded. Egg shaped, fair size, slightly netted; yellow flesh.....	6802	15 50
Defender. One of the very best yellow-fleshed sorts; medium size, oval in shape; flesh very firm and rich. Very vigorous and productive.....	6804	15 45
Emerald Gem. Small; extra early; dark green skin, orange flesh; very sweet.....	6810	20 60
Osage. Coconut-shaped; yellow flesh; light green, netted skin.....	6814	20 60
Paul Rose. Handsome oval variety; rich orange flesh; very sweet.....	6820	20 60
Shumway Giant. Round; light green; flesh deep salmon; very late.....	6824	15 50
Surprise. Oblong; rich orange flesh of fine quality; early.....	6830	15 50
Nutmeg Tip-Top. An improved strain; very sweet; salmon flesh.....	6840	20 60
Thorburn's Orange Christiana. Fine orange sort. Round, very sweet and very early.....	6850	20 60
Yellow-meated Japan. Fine.....	6860	15 50

GREEN-FLESHED MUSKMELONS

Baltimore Market. Oblong; green flesh of fine quality; intermediate.....	6870	15 50
Bay View Hybrid. Prolific, very large, late; green flesh.....	6880	20 60
Bush Muskmelon. Small fruit, similar in character to Jenny Lind.....	6890	20 60
Hybrid Casaba. A vigorous grower and an enormous yielder; produces melons of large size and unsurpassed flavor; skin is green until fruits begin to ripen, when it turns to a light yellow; white flesh, rich and luscious and from 2 to 3 inches thick. Splendid for warm climates.....	6904	15 50
Champion Market. Large, slightly elongated; netted; flesh light green; early.....	6910	20 60
Eden Gem. The popular shipping melon at Rocky Ford. Flesh deep green, very solid and firm. Skin heavily netted.....	6914	20 60

We pay postage or express charges on all garden seeds bought by the packet, ounce or quarter-pound.

MUSKMELON—Continued

	Oz.	¼ lb.
Egyptian Delty (Persian Delight). Round, flesh whitish green and surpassingly luscious in flavor, very juicy; rind thin and smooth, excellent for warm climates. Pkt. 10c. 6915	\$0 25	\$0 75
Gold-Lined Rocky Ford. Delicious, flesh thick, fine grained and sweet; color green, with a gold margin next to the seed-cavity; slightly oval and heavily netted. 6916	15	50
Hackensack. Large, round and of good quality; a popular variety; early. 6920	20	60
Hackensack Extra-Early. Ripens ten days earlier than the Hackensack. 6930	20	60
Honey Dew. New large, round, light-colored melon, delicious, rich, green flesh. Pkt. 10c. 6935	20	60
Jenny Lind. Old favorite. Small; green-fleshed; very early; good quality. 6940	20	60
Long Island Beauty. On style of Hackensack. The earliest and finest in quality, and the most beautiful of all Muskmelons. 6950	25	1 00
Melrose. Oval, dark green, densely netted; flesh thick, light green shading to salmon. 6955	20	60
Montreal Green. Large, round, netted; flesh thick and light green; late. 6970	20	60
Netted Gem, Round. Very early; small and of fine flavor; green flesh. 6980	20	60
Netted Gem, Oblong. Same as above, save in shape. 6990	25	75
Netted Rock. Produces Melons of uniform standard size, covered with a beautiful grey lace-like netting; flesh green, with delicate pink around the small seed cavity; sweet and superb flavor. 6995	15	50
Nutmeg. Sweet, green flesh; very early; named from its shape. 7000	25	80
Rocky Ford. Improved Netted Gem; very sweet and fine flavored; oblong. 7010	20	60
Skillman's Netted Gem. Oval-shape; early; sweet and highly perfumed. 7030	15	50
Winter Pineapple. An extraordinary melon; can be kept in splendid condition for months after being pulled. For the South only. 7140	15	50

All 5 cents per packet except where quoted otherwise

MISCELLANEOUS MUSKMELONS

Banana Citron. Cucumber-shaped; highly perfumed; late. pkt. 5c. 7110	20	60
Mango Melon, Vine Orange. Size, shape and color of an orange; fine for preserving or for pickling. pkt. 5c. 7120	20	60
Pomegranate. Ornamental for perfume; late. pkt. 5c. 7130	15	50
Vine Peach. Color of a peach, fine for preserving or for pickling. pkt. 5c. 7135	30	1 00

IMPORTED FRAME SORTS

For growing under glass, in packets only, 25 cents each

DELIGHT OF THE TABLE, ECLIPSE, GUNTON SCARLET, MONROE, LITTLE HEATH, TOURS SUGAR

WATERMELON

Melon d'Eau

Zandia

(Illustration on next page)

Culture.—Treat the same as Muskmelons, except that they should be planted 8 to 10 feet apart, according to variety. Light soil is best.

	Oz.	¼ lb.
Alabama Sweet. Dark green; tender red flesh; long. Fine shipper. 7410	\$0 10	\$0 30
Angel's Kiss. One of the best flavored sorts, flesh deep crimson; sweet and melting; oblong in shape; very prolific. 7420	10	35
Black Diamond. Dark green, tough skin; large size. Round. 7430	10	30
Black Spanish. Roundish; nearly black; dark red flesh; early. 7440	10	45
Boss. Oblong; dark green; flesh deep scarlet; rind thin, intermediate. 7450	10	35
Blue Gem, or Iceberg. Bright red flesh; very sweet; fine shipper. Oval. 7460	10	30
Bradford. Long and of dark color, red flesh, sweet and tender. 7480	10	35
Cole's Early. Medium size; red flesh; green skin. Oval. 7490	10	35
Cuban Queen. Solid and heavy; skin marked regularly; excellent, early. Oval. 7500	10	35
Dixie. Excellent quality; very large and solid; red flesh; intermediate. Long. 7510	10	30
Early Fordhook. Extra early; good size; green skin; red flesh. Oval. 7530	10	35
Florida Favorite. A superior strain; oblong; red flesh; intermediate. 7540	10	30
Gilbert's Success. Large Size, medium early; flesh bright red, firm and sweet; good shipper. 7545	10	25
Golden Honey. Oblong, flesh golden shade, very tender and delicious; rind light green with mottled stripes. 7547	10	35

All 5 cents per packet

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Tom Watson and Cuban Queen Watermelons

WATERMELON—Continued

	Oz. ¼ lb.	
Halbert Honey. Dark, glossy green skin; flesh crimson, luscious and sweet. Strong, vigorous grower and free fruiter. Long. Fine for northern states.....	7550	\$0 10 \$0 30
Ice Cream, or Peerless. Very early; red flesh. Oval.....	7570	10 30
Icing, Dark. Solid; dark green skin; red flesh of superior quality; white seed; early; nearly round.....	7580	10 35
Icing, Light. Round; pink flesh of fine quality.....	7590	10 35
Icing, Light. Long.....	7592	10 35
Jordan Gray Monarch. Largest grown; crimson flesh; late. Long.....	7600	10 30
Jumbo. Deep red flesh of excellent flavor. Very large, almost globular in shape; striped light and dark green.....	7606	10 30
Kleckley Sweets. Exceedingly sweet and fine flavored; dark green skin; thin rind; flesh scarlet, solid, and firm. Long.....	7610	15 35
Kolb Gem. Large; good shipper; bright red flesh; intermediate. Oval.....	7620	10 30
Mammoth Ironclad. Long; very large; late; red flesh; good shipper.....	7630	10 40
McIver's Sugar. Oblong, handsome and very sweet.....	7645	15 35
Mountain Sweet. Red flesh; late; dark green; long, tapers to stem end.....	7650	10 30
Phinney, Early. Oblong, fine quality, large solid; red flesh.....	7660	10 35
Pride of Georgia. Round; large; crisp; bright red flesh; intermediate.....	7670	10 30
Rattlesnake. Southern. Oblong; dark and striped; bright red flesh; late.....	7680	10 35
Seminole. Very large; quality first-rate; red flesh; intermediate. Oblong.....	7690	10 30
Sugar Stick. Light Green; oblong; luscious rich red flesh. Strong grower.....	7700	10 35
Sweetheart, Oval. Very large, bright skin; fine quality.....	7720	10 30
Tom Watson. Produces melons 16 to 22 inches long and 8 to 10 inches in diameter. The dark green rind is thin but tough; stands shipping well. The flesh is deep red, crisp and melting and of finest flavor. Long.....	7724	10 40
Triumph. Market sort, good shipper; rind dark green; red flesh; large, oblong.....	7730	10 35
Citron, Green Seed. Used for preserves.....	7750	10 35
Citron, Red Seed. Round and handsome; for preserving.....	7760	10 35

All 5 cents per packet

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MUSTARD

Moutarde *Mostaza*

Culture.—Sow thickly during early spring in shallow drills, and press the earth well down. For fall salad, sow in September, or in frames or boxes during winter.

		Oz.	¼ lb.	Lb.
Black. These seeds form the mustard of commerce.....	7800	\$0 10	\$0 25	\$0 75
Chinese Broad Leaved. Leaves of agreeable flavor when cooked like spinach.....	7803	10	30	1 00
Chinese Plain Leaved	7807	10	30	1 00
Fordhook Fancy. Very ornamental; plants of vigorous growth; leaves dark green, curved outwardly. If used as a vegetable, cook like spinach.....	7810	10	40	1 25
Giant Southern Curled. Very large leaves.....	7815	10	30	1 00
Ostrich-Plume. Leaves curled and frilled like an ostrich-plume.....	7820	10	25	75
White London. Leaves used for salads while young; grows very rapidly....	7825	10	30	1 00

NASTURTIUM

Capucine *Maraneula*

Culture.—Sow as soon as all danger of frost is past, in drills about an inch deep. The tall kinds require fences or poles on which to climb. The seeds are used in flavoring pickles, or as a substitute for capers.

		Oz.	¼ lb.	Lb.
Tall Mixed	7920	\$0 20	\$0 55	\$1 75
Dwarf Mixed	7930	20	60	2 50

All 5 cents per packet

OKRA, or GUMBO

Gombaud *Quimbombo*

Culture.—Sow late in the spring, after the ground has become warm, in drills 3 feet apart, where the plants are to remain. Thin out to from 9 to 12 inches. They should be well manured. They may also be raised in pots or a hotbed, and transplanted. For keeping, they should be picked while small and tender.

		Pkt.	Oz.	¼ lb.	Lb.
Long Green. Tall; very productive; moderately long green pods....	8020	\$0 05	\$0 10	\$0 25	\$0 75
White Velvet. Tender, long, white pods; smooth and velvety in appearance.....	8030	05	10	25	75
Dwarf Green Prolific. Short, thick pods.....	8040	05	10	25	75
Perkins' Mammoth. Fine strain; very long pods.....	8050	05	10	25	75

ONION

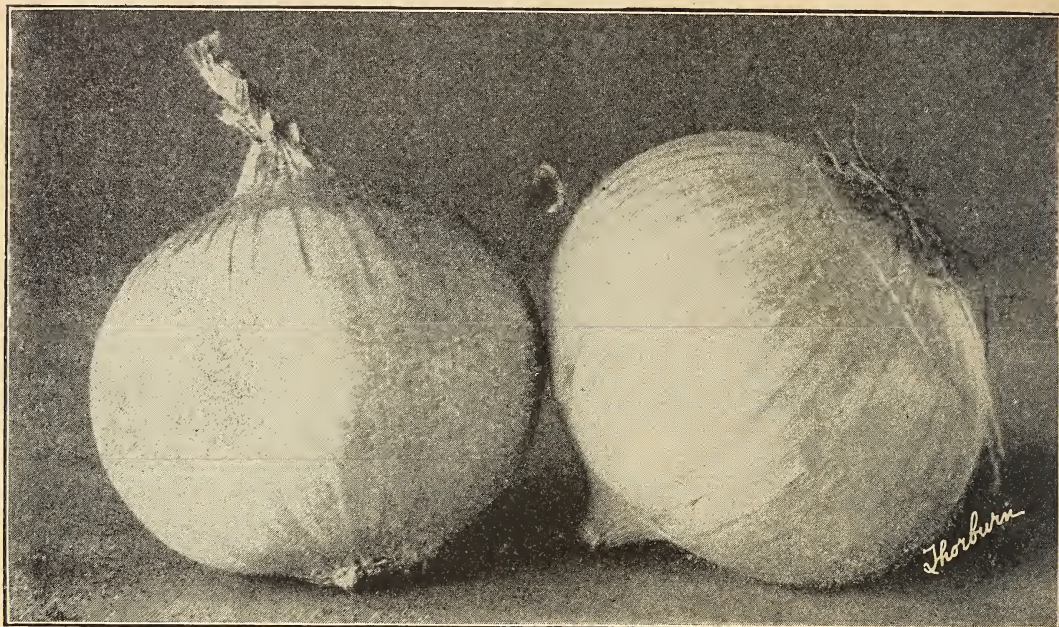
Oignon *Cebolla*

Culture.—Sow in rich, sandy soil, in drills 1 foot apart, as soon as the ground can be worked in spring—at the rate of 4 to 5 pounds to the acre. Thin to 3 to 4 inches, using the rake and hoe frequently to keep down the weeds. The finest Onions are produced by the new method of sowing the seed in hotbed in February and March and transplanting the seedlings to the open ground.

		Oz.	¼ lb.	Lb.
White Early Barletta. A small white Italian sort, very early.....	8320	\$0 60	\$2 00	\$6 00
" Queen. Pure white; small, flat; extra early; fine for pickling.....	8330	60	2 00	6 00
" Very White Pearl. Extra-early; round; very white; fine flavor.....	8334	60	2 00	6 00
" Victoria, Italian. White and globular.....	8350	60	2 00	6 00
" Large Portugal. The standard large flat sort of the New York markets.....	8360	60	2 00	6 00
" Large Globe. (Southport Strain.) Very large and handsome. pkt. 15c.....	8370	60	2 00	6 00
" Mammoth Garganus, or Silver King. Large silvery white, Italian.....	8380	60	2 00	6 00
" Maggiajola. Early white flat.....	8385	60	2 00	6 00
" Paris Silverskin.	8390	60	2 00	6 00
" Philadelphia Silverskin.	8392	60	2 00	6 00
" Bermuda (Teneriffe-grown).....	8400	60	1 75	5 00
" Bermuda. (True Crystal Wax.) (Teneriffe-grown).... pkt. 15c.....	8410	60	2 00	6 00
" Tripoli (El Paso, or Mexican). Large white Italian variety.....	8420	60	2 00	6 00
" Bunching, or Italian Silverskins.	8430	60	2 00	6 00
" Marvel of Pompeii. Small Italian sort, two weeks earlier than Barletta.....	8440	60	2 00	6 00
" Vaugirard. White flat, for pickling.....	8450	60	2 00	6 00
Yellow Danvers. A standard sort; early and a good keeper.....	8540	45	1 50	4 50
" Globe Danvers. Of more globular shape; keeps well.....	8550	50	1 75	5 00
" Large Globe. (Southport Strain.) The finest large yellow.....	8560	50	1 75	5 00
" Michigan Yellow Globe. Fine keeper.....	8564	50	1 75	5 00
" Australian Yellow Globe.	8565	50	1 75	5 00
" Giant Rocca. Pale yellow.....	8576	60	2 00	6 00

All 10 cents per packet except where quoted otherwise

We pay postage or express charges on all garden seeds bought by the packet, ounce or quarter-pound.



'Yellow Globe Danvers Onion (see page 37)

ONIONS—Continued

		Oz.	¼ lb.	Lb.
Yellow Prizetaker.	Immense size; globe shaped.....	8570	\$0 60	\$2 00 \$6 00
"	Strasburg, or Dutch. Fine keeper; flat; yellow skin; white flesh.....	8580	45	1 50 4 50
Red Australian Brown.	Medium size; hard; solid; very early.....	8700	45	1 50 4 50
"	Bermuda (Teneriffe grown).....	8710	50	1 75 5 00
"	Italian Tripoli	8715	60	2 00 6 00
"	Large Wethersfield. Half-early, and a good keeper; large size.....	8720	50	1 75 5 00
"	Large Globe. (Southport strain.) The finest large red sort.....	8730	60	2 00 6 00
"	Early Flat	8750	60	2 00 6 00
"	" Globe	8760	50	1 75 5 00

All 10 cents per packet except where quoted otherwise

ONION SETS

Plant in drills about 12 inches apart and 4 inches in the rows. Give high culture.

Yellow Onion Sets	per lb.	30 cts.
White Onion Sets	"	35 "
Red Onion Sets	"	30 "

PARSLEY

Persil Perijil

Culture.—Soak the seeds a few hours in lukewarm water, and sow early in spring and until the middle of July, in drills 1 foot apart. Have the soil thoroughly pulverized, and, after sowing the seed, pat it down lightly with the spade. Thin out the plants to 4 inches. To preserve in winter, transplant to a light cellar or coldframe. No. 8870 should be thinned out while young, and managed in after cultivation, the same as carrots and parsnips. The roots are edible either raw or cooked.

		Oz.	¼ lb.	Lb.
Thorburn Extra Curled.	Superior.....	8850	\$0 15	\$0 50 \$1 50
Thorburn Champion Moss Curled.	Pretty.....	8855	15	50 1 50
Plain.	The ordinary form.....	8865	10	50 1 50
Hamburg, Thick-rooted		8870	15	50 1 50

All 5 cents per packet

PARSNIP

Panais Chirijia

Culture.—Sow as early in the spring as the ground can be worked, in rich soil, in drills 18 inches apart. The ground should be well and deeply dug. Thin to 6 or 8 inches in the rows. Hoe and cultivate often to keep down weeds.

		Oz.	¼ lb.	Lb.
Thorburn Hollow Crown.	A market-gardener's strain.....pkt. 5c.	8890	\$0 20	\$0 60 \$2 00
Early Round	pkt. 5c.	8895	20	60 2 00
Guernsey		8896	20	60 2 00
Long Smooth White.	A standard variety.....	8898	20	60 2 00

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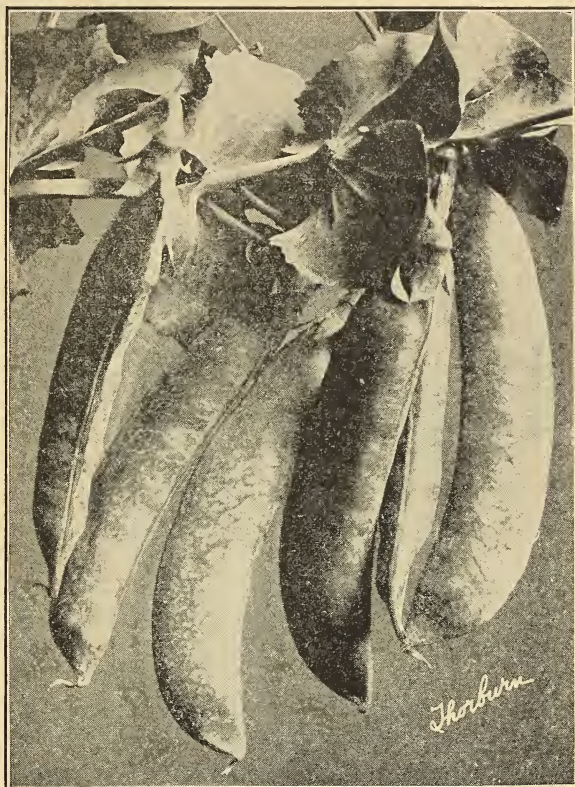
PEAS

Pois *Chicharos o Guisanthes*

Culture.—A week may be gained in earliness by sowing a quantity in moist sand placed in a box in the cellar, and planting outside when well sprouted. Light, dry soil, not over rich, suits the Pea. Sow as early as the ground can be worked, and again every ten days for succession. Peas may be sown in this vicinity as late as the 20th of August. Medium and Late Peas must be planted early; Extra-Earlies may be planted again in August. Sow in single or double rows, from 4 to 6 feet apart according to the different heights, about an inch apart in the row (except such sorts as we note to sow thinly), and 4 inches deep; 2 lbs. to 100 feet of drill. In this climate, the O'Rourke Pea, if planted from the 10th to the last of August, will produce a fair crop for fall picking, when Peas will be most acceptable. Hoe often and keep the ground clean and fine. The tall sorts can be made to bear more freely by pinching in. The dwarf varieties may be grown in beds like bush beans with rows about the same distance apart. The holes which are sometimes found in Peas are caused by the Pea weevil (*Bruchus pisi*). The beetles lay their eggs on the young pods, and the larvae as soon as hatched, make their way through the pods and into the nearest Peas. If the new aphide attacks the Peas, spray the vines every day with clear water of the same temperature as the atmosphere.

Those marked with a star (*) are wrinkled marrows, and, unless otherwise stated, should be sown thicker than the round Peas and not until the ground has become warm, as they are more liable to rot. They are the finest flavored of all Peas. Those marked thus (†) are large-podded sorts.

We supply packets of Peas at 15 cts. each, postpaid, except where quoted otherwise; other quantities NOT prepaid. Add postage at the zone rates.



Gradus

EXTRA-EARLY PEAS

	Height in feet	Per lb.	Per 2 lbs.	Per 5 lbs.
Thorburn Extra-Early Market. Our standard market-garden extra-early Pea; productive and profitable to grow.....	8900	2½	\$0 40	\$0 75 \$1 75
Daniel O'Rourke, Improved. Extra early; favorite sort.....	8910	2½	40	75 1 75
First-of-All. First-class selected strain of extra-earlies.....	8920	2½	40	75 1 75
Pedigree. Extra Early. Vigorous and prolific.....	8922	2½	45	85 2 00
The Leader. "Round seeded Gradus." Long pods.....	8925	3	40	75 1 75
Alaska. One of the very earliest blue Peas; quite productive.....	8930	2½	40	75 1 75
*† Thomas Laxton. A cross between Gradus and one of the extra-early sorts. Ripens within a day or two of the earliest round varieties; very productive. The pods are large and contain seven or eight large, wrinkled Peas of the finest flavor.....				
	8940	3	50	95 2 25
*† Gradus , also called Prosperity. One of the finest extra-early Peas. Ready to pick about four days after 8900. Pods very large, filled with large wrinkled Peas of finest quality.....				
	8950	3	55	1 00 2 25
Ameer (Claudit). Finest quality, exceedingly productive.....	8970	2½	45	85 2 00
* American Wonder. Early and productive; fine quality.....	8980	1	50	95 2 25
* Sherwood. Pods large, deep green color.....	8988	1	40	75 1 75
* Sutton's Excelsior. As early as American Wonder, with much broader pods, filled with large Peas of finest flavor; very prolific; one of the finest dwarf Peas in cultivation.....				
	8990	1	55	1 00 2 25

We pay postage or express charges on all garden seeds bought by the packet, ounce or quarter-pound.

PEAS—Continued

		Height in feet	Per lb.	Per 2 lbs.	Per 5 lbs.
* Nott's Excelsior. Splendid early wrinkled sort; very prolific.....	9060	1	\$0 50	\$0 95	\$2 25
Premium Gem. Early, straight pods, well filled.....	9010	1	50	95	2 25
* Little Gem. Early; straight pods.....	9020	1½	45	85	2 00
* Little Marvel. A few days earlier than English Wonder and with larger pods. This variety is an improvement on English Wonder and in habit is very similar. Remarkably prolific.....	9030	2	55	1 00	2 25
*† Laxtonian. Very large, dark green, curved pods and Peas of finest flavor; great yielder, very early.....	9040	2	60	1 10	2 50
Pilot. Very early, large pods well filled with finely flavored Peas; very prolific.....	9042	3	60	1 10	2 50
* Pioneer. Similar to Laxtonian; pods well filled with large peas of fine quality.....	9043	2	60	1 10	2 50
* Richard Seddon. The best dwarf extra-early.....	9045	1½	40	75	1 75
* Worlds Record. Large podded Pea of fine quality; very early.....	9050	4	60	1 10	2 50

EARLY AND MEDIUM PEAS

* Advancer. A fine standard sort of excellent quality.....	9130	2½	40	75	1 75
* Abundance. Long, round, well-filled pods. Sow thinly.....	9160	3	40	75	1 75
* Horsford's Market-Garden. On the style of Advancer; prolific.....	9170	2½	40	75	1 75
Everbearing. Long pods, large peas; sow thinly.....	9180	2½	40	75	1 75
† Pride of the Market. Very large pods; green Peas. Sow thinly.....	9190	2	40	75	1 75
* Champion of England. A well-known standard sort. Sow thickly.....	9200	5	45	85	2 00
* Dwarf Champion (Juno). A dwarf form of the popular Champion of England, with large pods; very productive; finest quality.....	9210	2	40	75	1 75
*† Duke of Albany (American Champion). Immense pods on style of Telephone; very superior.....	9220	5	50	95	2 25
* Heroine. Large curved, well filled Pods about 4 inches long; Peas of fine flavor; very prolific.....	9224	2	55	1 00	2 25

MAIN AND LATE-CROP PEAS

*† Admiral Dewey. Enormous pods; large wrinkled Peas of fine flavor; very productive.....	9400	4	50	95	2 25
*† Stratagem. Very large pods; Peas of finest quality.....	9420	2	55	1 00	2 25
Potlatch. A large podded Pea; fine.....	9430	2	55	1 00	2 25
† Telegraph. Large pods and Peas.....	9440	4	50	95	2 25
*† Telephone. Enormous pods and Peas of best quality.....	9450	4	50	95	2 25
Boston Unrivalled. Large pod, prolific, suitable for light soil.....	9455	4½	50	95	2 25
Late White Marrowfat. Very hardy and prolific.....	9460	4	35	60	1 35
Late Black Eyed Marrowfat. Very hardy and prolific.....	9470	3	35	60	1 35

SUGAR PEAS (Edible Pods)

Sugar Peas have edible pods which are eaten when young.

Luscious Sugar	9564	4	55	1 00	2 25
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PEPPER

Piment *Pimienta*

Culture.—Sow in hotbeds in March and, when the soil has become warm, set in rows 2 feet apart and 18 inches in the rows. Hoe frequently. The plants may also be forwarded in small pots. The soil should be light, warm, and rich, but not dry. 1 oz. will produce 1,500 to 2,000 plants.

Bell, Large. Bright red; largely used for pickling. It is of such mild flavor that it may be eaten as a vegetable.....**9650** Oz. \$0 75

CHINESE GIANT. Very large; flesh very mild and thick; bright scarlet color. **9660** 1 00

Cayenne Long Red. Slender pods, 3 in.; pungent.....pkt. 10c. **9670** 50

Crimson Giant. Upright growth; large thick flesh and mild.....**9685** 1 00

Golden Dawn. Mild and sweet; handsome and distinct; small.....**9690** 75

Monstrous, Sweet. Very large and of mild flavor; for use when green.....**9710** 75

Perfection Sweet Pepper. A very sweet pepper, piquant flavor, not fiery, medium size, thick skinned and of brilliant scarlet; top shaped.....**9725** 75

Red Cherry. Cherry shaped; used for pickles; very hot.....**9740** 75

Red Chili. Productive; small; red and very pungent.....pkt. 10c. **9750** 50

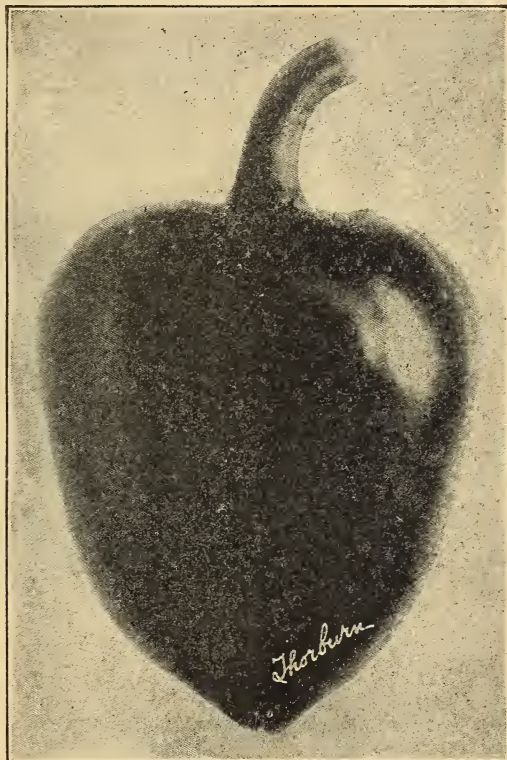
Royal King. Similar but greatly superior to Ruby King. Flesh very thick; mild and sweet; fine shipper.....**9755** 1 00

Ruby King. Bright red; 4 to 6 inches long; mild; best for stuffing.....**9770** 75

Squash, Large, or Tomato. Productive; for pickles.....pkt. 10c. **9780** 50

Sweet Spanish. Large, mild; used for salad. Pkt 10c; ¼ Lb. \$1.50; 1 Lb. \$5.00....**9800** 50

All 15 cents per packet except where quoted otherwise.



Perfection Pepper Oz.

PUMPKIN

Potiron

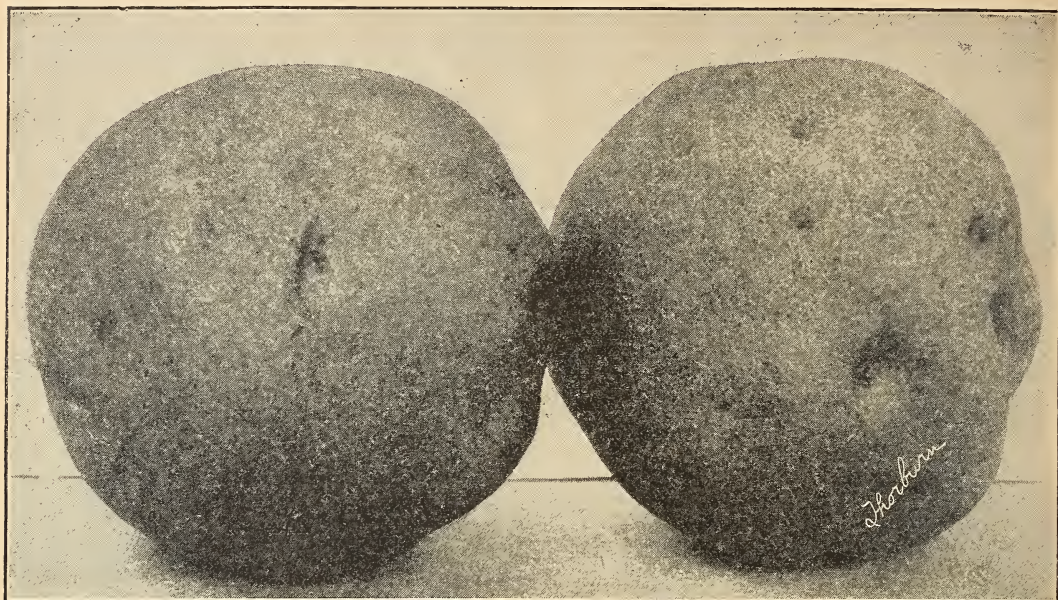
Calabaza

Culture.—May be planted middle of spring, among the Indian corn or in the field or garden, in hills 8 to 10 feet apart each way, four seeds in a hill. In other respects is cultivated in same manner as melons and cucumbers. Avoid planting near other vines. Sow seeds about 1 inch deep, 1 oz. for 30 hills.

	Oz.	¼ lb.	Lb.
Large Cheese. Flat; one of the best varieties for family use..... 10150	\$0 15	\$0 50	\$1 50
Early Sugar. Fine-grained, sweet and prolific; small; yellow..... 10170	15	50	1 50
Golden Oblong. Orange skin; light yellow flesh; fine quality; good keeper.. 10200	15	50	1 50
Cushaw Striped. A splendid striped crookneck variety..... 10220	20	60	2 00
Cushaw Mammoth Golden. A golden yellow variety of excellent quality; fine for pies..... 10225	15	50	1 50
Tennessee Sweet Potato. Bell-shaped; thick; white flesh; fine for pies.... 10230	15	50	1 50
Japanese Pie. Early; dark green; flesh yellow..... 10246	15	50	1 50
Mammoth King. Grows to an enormous size..... 10260	20	60	2 00
Mammoth Tours. A large French variety..... 10270	15	50	1 50
Quaker Pie. Very prolific and a good keeper; fine for pies..... 10280	15	50	1 50
Red Etampes. Medium size, round flat, ribs broad and well marked; skin a very bright and distinct orange color; grows 12 to 15 inches in diameter.... 10285	15	50	1 50
Winter Luxury. A fine keeper and one of the best for pies..... 10290	15	50	1 60
Connecticut Field. Grown in cornfields for stock..... 10300	15	50	1 50

All 5 cents per packet.

We pay postage or express charges on all garden seeds bought by the packet, ounce or quarter-pound.



Sir Walter Raleigh Potatoes

POTATOES Grown Expressly for Seed (In Barrels)

Pomme de Terre

Patatas

Culture.—Three to four barrels to the acre, 1 peck for 100 foot row. In order to have the best success in growing Potatoes, it is necessary to plant as early as the ground can be made ready. Select a rich soil, neither dry nor wet. Cut the potatoes into chunky pieces of one quarter or so, not thin slices, and plant in rows 3 feet apart, and the sets 1 foot in the rows and about 4 inches deep. If wood-ashes and plaster can be procured, sow a good dressing over the field after the Potatoes are up. If a very early crop is desired, it will be necessary to sprout the Potatoes before planting. Cut the Potatoes into pieces of any size desirable, and place in a warm, light room for four to six weeks before required for planting in the open ground. During this time shoots will start out strong and vigorous, so that, as soon as planted, they will send out roots and grow much more rapidly than those treated in the ordinary way. Another method is to place the sets in a hotbed two weeks before they are wanted and then lift carefully, so as not to break the sprouts, and set out on fresh horse dung, so that the heat will cause them to start at once. For diseases and pests in general, beginning when the plants are up 6 to 8 inches, spray with a mixture of Bordeaux and Paris Green every two weeks or so. If the Colorado Potato beetle makes its appearance the vines must be dusted with Paris Green mixed with about 80 parts of plaster; or what is better, mix the Paris Green in water, one small tablespoonful to a pailful, and apply with a small brush or broom. Take care to stir the mixture often, or else the Paris Green will settle to the bottom. Two or three applications during the season will usually suffice to clean off all the beetles.

These are prices ruling January 1st; later on they may be higher and are subject to change without notice. We ship Potatoes entirely at Customer's risk.

One Barrel weighs 165 Pounds Net. One Bushel 60 Pounds Net.

EARLY POTATOES

	½ pk.	Pk.	½ bus.	Bus.	Bbl.
NOROTON BEAUTY. The finest and most productive extra early Potato grown. Handsomer in appearance and more uniform in shape than any other sort. Its table quality is superb. Original stock. Crop uncertain, prices not fixed yet.....					
.....					10400
Thorburn's Beauty of Hebron. Slightly flesh-colored skin, with pure white flesh. Early, very productive and of the finest quality.....					10420
.....	\$0 70	\$1 00	\$1 90	\$3 50	\$9 00
Irish Cobbler. Fine white; vigorous grower.....	70	1 00	1 90	3 50	9 00
Bovee. Extra early; very productive; fine quality; flesh white.....	70	1 00	1 90	3 50	9 00
Early Rose. Popular market sort; very early; fine quality; very productive.....	70	1 00	1 90	3 50	9 00
.....					10460

INTERMEDIATE AND LATE POTATOES

Bliss' Triumph. Very early and very productive; round shape, red color, resists disease well; good sort for the South.....	70	1 00	1 90	3 50	9 00
Gold Coin. A splendid main-crop variety of remarkable productiveness and finest table quality; slightly oblong form, light golden skin; flesh pure white, fine-grained; cooks very dry.....	70	1 00	1 90	3 50	9 00
.....					10520

We pay postage or express charges on all garden seeds bought by the packet, ounce or quarter-pound.

POTATOES, INTERMEDIATE AND LATE—Continued

	½ pk.	Pk.	½ bus.	Bus.	Bbl.
Carman No. 1. This most valuable Potato was introduced by us in 1894, and it is a recognized high-class standard sort the world over. The finest second-early Potato ever offered..... 10530	\$0 70	\$1 00	\$1 90	\$3 50	\$9 00
Bibb's Russet. Best main-crop potato now in cultivation; round to oblong in shape; of good size; pure white flesh, russet skin, few and shallow eyes; excellent quality; very productive and a good market variety; vines rich dark green, very robust and extremely disease resistant..... 10535	70	1 00	1 90	3 50	9 00
Sir Walter Raleigh. Very productive; white flesh of best quality. 10560	70	1 00	1 90	3 50	9 00
Rural New Yorker. An old standard Potato. Very few and shallow eyes; fine, pure white skin and flesh; immense yield; fine table quality, cooking very mealy..... 10580	70	1 00	1 90	3 50	9 00
Green Mountain. Oval shape, white skin and flesh; excellent; heavy yielder..... 10590	70	1 00	1 90	3 50	9 00

RADISH

Radis et Rave

Rabanos y Rabanitos

Culture.—Sow as soon as the ground is dry in the spring in rows 8 to 12 inches apart, and ½ inch deep, every week or ten days for a succession up to the middle of June, after which they are but little used unless a cool northern spot can be had, where the ground is shaded during a part of the day. They should be sown in light rich soil, as a crisp Radish cannot be produced in heavy soils. Sow also in early fall for late crops and winter use. Sow 8 to 10 pounds to the acre, 1 oz. for 100 to 125 foot row. Radishes should be eaten when quite small; it is a mistake to let them grow too long and too large. This applies particularly to the French Breakfast and small turnip-shaped sorts. Varieties marked with an asterisk (*) are best suited for market gardeners.

		Oz.	¼ lb.	Lb.
* Turnip, Early Scarlet.	Very Early. The French Favorite..... 10680	\$0 20	\$0 50	\$1 75
" " " "	Forcing. Crisp; very early..... 10690	20	60	2 00
* " " " "	White-tipped. Very early; for frames or out- doors..... 10710	20	50	1 75
" " " "	White-tipped Forcing 10720	20	60	2 00
* " " " "	Cooper's Sparkler. Carmine, with white tip..... 10730	20	60	2 00
" " " "	Deep Scarlet. Very early; crisp..... 10740	20	50	1 75
" " " "	Deep Scarlet Forcing. "Non plus Ultra." Tender and crisp; rich, deep scarlet color..... 10760	20	60	2 00



Scarlet Globe Shaped Turnip Radish

***Turnip, Early SCARLET GLOBE-SHAPED.** Fine for forcing or open ground. The Radishes are almost round, of a beautiful rich scarlet, very tender and crisp.
.....**10810**

Turnip, Early CRIMSON GIANT Forcing. Good also for outdoors, in spite of their large size these radishes are crisp and solid. **10820**

Turnip, Early White......**10842**

Turnip, Early Round White Forcing or Box
10850

Turnip, Large White Summer
10860

Turnip, Early Yellow. Extra early......**10890**

***French Breakfast.** Pink and white, early.....**11000**

We pay postage or express charges on all garden seeds bought by the packet, ounce or quarter-pound.

RADISH—Continued

	Oz.	¼ lb.	Lb.
* Olive-shaped White Forcing (White Rocket). A forcing strain of French Breakfast.....	11060	\$0 20	\$0 60
Olive-shaped Scarlet	11094	20	60
Half Long Deep Scarlet (Paris Beauty)	11140	20	60
“ “ “ “ Forcing	11144	20	65
“ “ “ “ White Tipped Forcing	11146	20	60
Half-Long Delicacy. Half-long, smooth, snow-white; fine forcer.....	11150	20	60
* Long Scarlet Short Top. Very long, crisp; for frames or outdoors.....	11180	20	65
Long Brightest Scarlet or Cardinal White-tipped	11190	20	60
Long White Naples, or Shepherd. Slender; for summer use.....	11210	20	60
* Long White Vienna, or Lady Finger. Crisp and tender in summer.....	11220	20	60
Long Icicle. Pure white, of fine flavor; suitable for forcing.....	11230	20	60
Long Cincinnati Market. An improved strain of Long Scarlet.....	11240	20	50
Long Scarlet Chartier. Tipped white; splendid summer variety.....	11245	20	50
* Long Wood's Frame. Long, red, crisp and good forcer.....	11250	20	60
Round Scarlet China. Fine for winter or summer. Matures in 6 to 8 weeks.....	11290	20	50
* White Strasburg Summer. Very large; a popular favorite.....	11320	15	50
* Winter Chinese. Oblong. Very handsome and distinct and keeps well.....	11380	20	50
Winter Long Black Spanish. The popular winter sort.....	11390	20	50
Winter Half Long Black or Grey Spanish. Very fine strain.....	11400	20	50
Oval Black Spanish. Shorter and more oval than the above.....	11410	20	50

Winter Round Black Spanish. Fine for Winter..... 11420 Oz. ¼ lb. Lb.
\$0 20 \$0 65 \$2 25

Sakurajima (Mammoth Japan). The largest sort in cultivation. Sow early in rich soil. In Japan it grows as much as 21 inches long and 43 inches in circumference. Thin well to allow of proper development.
11480 25 75 2 50

All 5 Cents per Packet.

RHUBARB

Culture.—Sow seed in a coldframe, in a fine rich, sandy loam, about the first of March, in drills 4 inches apart. Keep the frames covered during the nights and cold days, so that the soil will not freeze, and in six to eight weeks the plants will be large enough to set in the open ground. Transplant to a rich and deep soil, and set in rows 12 inches apart and 12 inches in the row. The following spring transplant again to a permanent location, setting 4 to 5 feet apart each way. In good soil, Rhubarb is ready to use the second year from seed. When roots are set out, plant them 4 to 5 feet apart each way, and keep weeds down. If roots are used, a crop may be had after one season, which is much better than sowing seed where only a few plants for family use are needed. In the fall, the bed should have a thick dressing of coarse manure, to be spaded under in spring. Pkt. Oz. ¼ lb.

Victoria..... 11640 \$0 05 \$0 25 \$0 75
ROOTS, of Victoria. Strong roots. Each \$0 10
11700 \$0 25 \$2 00

Transportation Charges Extra.

SALSIFY, or VEGETABLE OYSTER

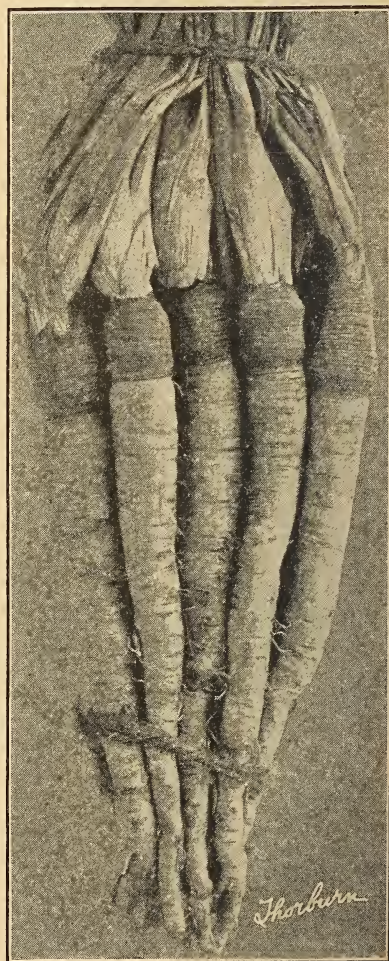
Salsifis

Ostion Vegetal

Culture.—Sow as early as the ground can be worked in the spring, in drills 12 inches apart, 1 inch deep, and thin out to 6 inches in the row. Use 1 oz. to 60 foot row. Keep the plants free from weeds. Cultivate the same as carrots and parsnips. A part of the crop may be left in the ground till spring, when it will be found fresh and plump. The roots are cut into pieces ½ inch long, boiled until tender, and then served with drawn butter, in which way it is a delicious vegetable. They are also mashed and baked like parsnips, and have a sweet and agreeable flavor. Mashed and fried, the flavor is much like that of the oyster. Sow eight to ten pounds to the acre.

Long White French. 11840. Pkt. 15 cts., oz. 50 cts., ¼ lb. \$1.50.

Mammoth Sandwich Island. Large. 11850. Pkt. 15 cts., oz. 50 cts., ¼ lb. \$1.50.



Mammoth Sandwich Island Salsify

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SORREL

Oseille

Culture.—Sow in spring in drills 18 inches apart, in a rich soil, and keep the flower-stems cut off as they appear. It remains in the ground year after year, and needs to be taken up and divided only once in four or five years. To be cut and cooked precisely like spinach; or it is excellent cooked with it, one-third sorrel to two-thirds spinach. It is also used for soups. Very nice to be eaten after it has become cool. Inasmuch as the hot sun tends to increase its acidity, a northern exposure is preferable.

Acedera

	Oz.	¼ lb.
Garden, Large French, 11930	\$0 30	\$1 00
" Mammoth Lyons,		
White.....11940	25	75
" Golden-leaved		
Lyons.....11944	30	90
" Chambourcy. A new,		
large-leaved desirable		
sort.....11960	30	85

All 10 cents per packet.



Giant Lucullus Swiss Chard

SWISS CHARD, or
SILVER BEET

Silver Leaf. This is a Beet producing leaves only, of a quality superior to those of the ordinary Beet, and excellent as greens. Cultivate about the same as spinach, by sowing the seed in early spring in drills about a foot apart. As it grows, thin out for use, and keep clear of weeds if success is desired. When thinned out to 1 or 1½ feet apart in the rows, pull the leaves as required, leaving the interior head to grow again. Good cultivation will increase the delicacy and tenderness of the leaves. **1690.** Pkt. 5 cts., oz. 25 cts., ¼ lb., 75 cts., lb. \$2.50.

Giant Lucullus. Large, crinkled leaves; tender and of fine flavor; dark green; pure white ribs. **1700.** Pkt. 10 cts., oz. 30 cts., ¼ lb. 85 cts., lb. \$3.00.

SPINACH

Epinard

Espinaca

Culture.—Sow in early spring, 1 inch deep, in drills a foot apart (10 to 12 pounds to the acre, 1 ounce to 100 foot drill), every two weeks for a succession, and, as it grows, thin out for use. Soil should be rich and light. For fall use, sow in August, and for winter crop in September. Cover that which is left out over winter with straw or leaves after the weather becomes quite cold. Keep clear of weeds. Sow the seeds of New Zealand in hills 2 feet apart each way, three or four seeds in a hill.

	Oz.	¼ Lb.	Lb.
Round Viroflay (Thick-leaved). Has very large, thick, dark green leaves; the favorite market-gardeners' sort for fall or spring sowing.....	12000	\$0 10	\$0 30 \$1 00
Long Season, Thorburn's. Stands longer before running to seed than any other sort except New Zealand.....	12010	10	30 1 00
Round-leaved Flanders. A standard sort.....	12020	10	30 1 00
Lettuce-leaved. Popular French sort.....	12040	10	30 1 00
Curled-leaved Savoy, or Bloomsdale. Large curled and wrinkled leaves; tender and of finest flavor.....	12050	10	30 1 00
Long-standing (Round Thick-leaved). Dark green; leaves large and thick; very long-standing. Best for spring growing.....	12060	10	30 1 00
Victoria. Extra-dark, black-green color. Two or three weeks later than the ordinary "Long-standing." A fine variety for spring sowing.....	12070	10	30 1 00
Prickly, or Winter. Vigorous and hardy; recommended for fall sowing.....	12080	10	35 1 25
Eskimo Giant. Dark green; large leaves.....	12090	10	30 1 00
Triumph. An improved long standing sort.....	12100	10	30 1 00
New Zealand Summer. Not a Spinach, but used as such. Grows 1½ feet high and is very prolific. Pick the leaves and shoots as wanted. It does well in hot summer weather; valuable for hot climates. Soak the seed in hot water before sowing.....	12120	25	75

All 5 cents per packet.

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Various Squashes

SQUASH

Coursge

Calabaza

Culture.—Sow in hills in the same manner and at the same time as cucumbers and melons, the bush varieties 3 to 4 feet apart, the running kinds from 6 to 9 feet apart. Four ounces to 100 hills for bush varieties and eight ounces for running varieties.

BUSH VARIETIES

	Oz.	¼ Lb.
Early Golden Bush. Fine for summer; not so early as the White Bush.	12200	\$0 20 \$0 60
Golden Custard. Mammoth strain of the Golden Bush. A valuable variety; golden yellow flesh; fine quality.	12210	25 80
Early White Scallop Bush. A good early shipping variety.	12220	25 75
Mammoth White Scallop Bush (Silver Custard). Not so early as the former, but it produces larger fruits.	12224	25 75
Long Island White Bush. An improved strain of Early White Scallop Bush; very prolific.	12230	25 75
Fordhook, White Bush. Oblong fruits, smooth, thin yellow skin.	12234	25 80
Summer Crookneck. Yellow fruit; distinct, best for summer.	12270	25 80
“ “ Giant; double the size of the above.	12280	30 90
“ “ White fruit.	12285	25 80
Cocozell Bush. (True Italian Vegetable Marrow.) A fine variety; oblong shape; skin smooth, dark green, marbled yellow or pale green.	12300	30 1 00

RUNNING VARIETIES

Boston Marrow. Oval; bright orange; flesh yellow and fine.	12410	25 75
Cocoanut. A beautiful little Winter-Squash, the size of a cocoanut, cream-colored; fine quality; prolific.	12420	25 75
Delicata. Orange-yellow, striped green; small size, but very prolific; it is extra early, solid and a good keeper; flesh dry and of fine quality.	12440	25 80
Delicious. Green skin; orange flesh, fine-grained, sweet and dry.	12450	30 90
Fordhook Running. One of the best winter sorts; fine quality.	12470	25 80
Hubbard. Well known and liked for late use; an excellent sort for pies.	12500	30 90
“ Golden or Red. Same as above, but with orange-red skin.	12510	30 90
“ Mammoth Warted. Immense size, covered with warts.	12530	30 90
Mammoth Chili. Rich orange flesh, grows to an enormous size.	12540	25 75
Orange Marrow. Quite distinct; very early and of most delicate flavor; suitable for fall and winter.	12570	25 75
Turban. Orange yellow flesh; good flavor.	12590	30 1 00
Early Prolific Marrow. Similar to Boston Marrow, but earlier: bright orange, delicate rich flavor, vigorous and very productive.	12595	25 75
Lagenaria leucantha Longissima. Known to some gardeners as “Cutcutza.” 2 feet long, 3 inches in diameter, tapering to 2 inches. Should be eaten when young.	12598	30 1 00

All 5 cents per packet

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VEGETABLE MARROW

			Oz.	¼ Lb.
English.	True strain; cream color.....	pkt 10c. 12680	\$0 30	\$1 00
"	" " White.....	pkt 10c. 12685	30	1 00
"	" " Green.....	pkt 10c. 12690	30	1 00
Italian (Cocozelle di Napoli).	Grows about 20 inches long, with a diameter of 3 or 4 inches. Skin smooth, dark green, marbled yellow or pale green. In Italy it is eaten when quite young.....	pkt 5c. 12700	30	1 00



TOMATO

Tomato

Tomate

Culture.—Sow in a hotbed in early spring, about ¼ inch deep, or the seed may be sown in shallow boxes and placed in a window when one does not wish to have the trouble of making a hotbed. 1 ounce will produce 1,500 to 2,000 plants. Transplant to the open ground when all danger of frost is past, setting the plants 3 to 4 feet apart each way. Fruit may be had several weeks earlier by sowing seed quite early and transplanting into small pots. Tomatoes that have not ripened at the end of the season may be taken from the vines and placed in empty coldframes, or wrapped in tissue paper, and carefully packed in flat boxes—where a large proportion of them will ripen from time to time, frequently until Christmas.

The varieties marked * are best for forcing.

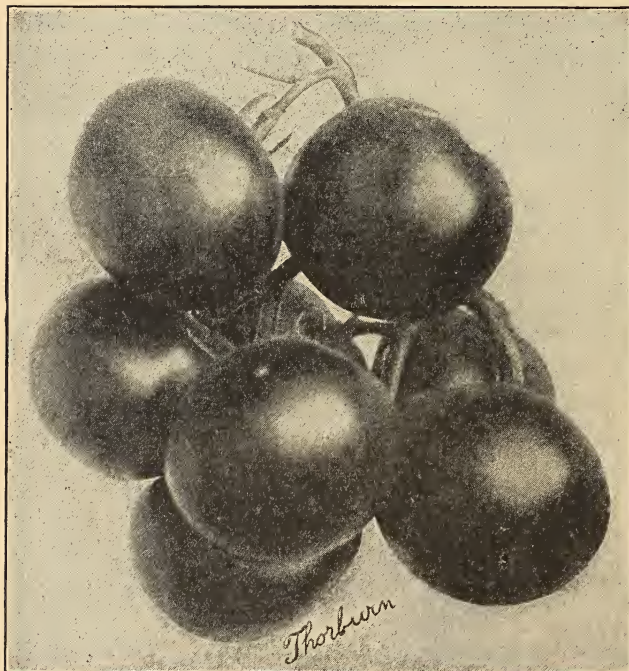
		Oz.	¼ Lb.
Acme.	Medium size; smooth and good; crimson.....	12740	\$0 45 \$1 50
*Atlantic Prize.	Extra early; smooth; medium scarlet; good size.....	12750	45 1 50
Beauty.	Large, smooth, dark crimson; thick flesh; regular form.....	12770	45 1 50
Bonny Best.	Very early; scarlet; medium to full market size; even, smooth and regular; valuable for home garden or market.....	12775	50 1 75
Buckeye State.	Very large and productive; crimson; smooth, uniform, good quality.....	12780	60 2 00
*Carter's Sunrise.	Early and productive; medium-sized, bright scarlet fruits; smooth and solid. For forcing or for outdoors.....	12794	75 2 50
Chalk's Early Jewel.	Fine, large, solid, smooth, scarlet; similar to Stone; early.....	12800	50 1 75
Coreless, Livingston's.	Almost round; bright red; very productive. Ripens all over at once and being almost free from green core it is an exceptionally fine slicing sort.....	12810	50 1 75
Crimson Cushion.	Extra large; handsome; bright crimson.....	12830	75 2 50
Cluster, Thorburn's Improved.	Bright scarlet; grows in bunches like grapes.....	12835	45 1 50
Dwarf Champion.	Quite distinct; early; fruit like the Acme; crimson; of medium size; good quality.....	12840	50 1 75
Dwarf Giant.	Largest-fruited of all dwarf sorts; crimson; firm flesh of delicious flavor. Compact and vigorous grower.....	12844	45 1 50
*Earliana.	Extra early; cardinal-scarlet; smooth.....	12850	50 1 75
Favorite.	Large, smooth, productive and good shipper.....	12900	45 1 50
Fordhook First.	Early, crimson, smooth; solid; medium size; very profuse bearer.....	12910	45 1 50
*Frogmore Selected.	Medium Size; bright, deep red; smooth; very solid and fine-flavored. An excellent sort for forcing under glass.....	12920	45 1 50

All 10 cents per packet except where quoted otherwise.

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TOMATOES—Continued

	Oz.	¼ Lb.
Freedom. Early; regular and uniform; bright scarlet.....	12930	\$0 45 \$1 50
Globe, Livingston's. Very early; crimson, smooth and of large size; very productive and a good keeper. A standard variety which retains its popularity.....	12940	50 1 75
Golden Queen. Smooth; golden yellow; about size and form of Beauty; of good flavor and solid; fine; very early.....	12950	50 1 75
Ignotum. Early, for so large a sort; deep red; smooth and prolific.....	12960	45 1 50
King of the Earlies. One of the first to ripen; large; scarlet; fine for hot climates.....	12985	45 1 50
Lemon Queen. Most desirable of the Yellow Tomatoes; skin and flesh lemon, with a faint rose blush.....	12990	45 1 50
Magnus. Purplish pink; firm flesh; large, uniform; early and productive.....	13020	45 1 50
Matchless. Extra large, smooth and handsome; scarlet; very solid. Plant of vigorous growth and prolific.....	13030	60 2 00
Michigan Early. Large, scarlet; smooth and solid.....	13035	45 1 50
Mikado. Crimson; large, smooth and solid.....	13040	50 1 75



Noroton Forcing Tomato

Noroton Forcing. Bright crimson; solid; very prolific; of uniform size, averaging about six to a pound. Valuable forcer.....	13045	45 1 50
Optimus. Medium size; cardinal-scarlet; smooth and solid; second early.....	13050	45 1 50
Paragon. Cardinal-scarlet; round; very productive.....	13060	45 1 50
Perfection. Early, regular and productive; scarlet.....	13070	45 1 50
Ponderosa. The largest variety in cultivation; crimson, pkt.15c.....	13080	75 2 50
RED ROCK. An improvement on the well-known stone. Exceedingly firm-fleshed; very large size, and ripens evenly without cracking. The vine is a strong, vigorous grower and produces its fruit in great profusion.....	13084	45 1 50
Ruby Early. Very early; large size; color bright scarlet.....	13110	45 1 50

Stone, Thorburn's. Very large, perfectly smooth; fine dark scarlet.....	13130	45 1 50
Stone Dwarf. In fruit resembling Dwarf Champion, but with much larger fruit. Color bright scarlet, perfect shape, very solid; of the best quality.....	13140	45 1 50
Success. Large; bright scarlet; smooth and solid; productive. Plant strong and thrifty in growth.....	13150	45 1 50
Terra-Cotta. Distinct in color and flesh; pure terra-cotta.....	13180	45 1 50
Thorburn's Long-Keeper. Bright red; early and productive; fine keeper.....	13194	45 1 50
Trophy. Very solid; standard late; fine canner; dark scarlet. A particularly vigorous and thrifty grower.....	13200	45 1 50
Trucker's Favorite. Crimson, large, smooth and very regular in form; solid.....	13210	50 1 75

SMALL-FRUITED TOMATOES

For pickling and preserving. Also invaluable for garnishing.

Red Cherry. Small fruits, used for pickles; very handsome.....	13300	60
" Currant. Resembles the currant. Useful for preserves, pickles and exhibition purposes.....	13310	60

All 10 cents per packet, except where quoted otherwise.

We pay postage or express charges on all garden seeds bought by the packet, ounce or quarter-pound.

TOMATOES—Continued

		Oz.
Red Peach.	Resembling a peach; for preserves, pickles and exhibition.....	13320 \$0 60
" Pear.	Fruit handsome and solid; fine for preserves.....	13330 60
" Plum.	Bright red; round; regular; for pickles.....	13340 60
Strawberry	(Winter Cherry or Husk Tomato) Yellow. Makes fine sauce.....	13350 60
Yellow Cherry.	For pickles and preserves.....	13360 60
" Peach.	Beautiful clear yellow; perfectly resembles a peach.....	13370 60
" Pear.	Handsome, yellow, pear-shaped fruits.....	13380 60
" Plum.	Round and regular; bright yellow; used for pickles.....	13390 60
All 10 cents per packet, except where quoted otherwise		

TURNIP

Navet *Nabo*

Culture.—For early Turnips, sow as soon as the ground opens in spring. Nos. 13854 to 13930 should be sown from any time in July to first of August; but the other kinds, for winter use, may be sown from the middle of July to the end of August. Turnips are generally sown broadcast but much larger crops are obtained (particularly of the Rutabagas) by cultivating in drills 18 inches apart, and thinning to 6 inches in the drill. Sow in drills, one pound to the acre, 1 oz. to 150 ft. drill; broadcast, two to three pounds to the acre.

WHITE VARIETIES

Cow Horn. Long, white, in shape resembling a cow's horn, **13500**, oz. 25c., $\frac{1}{4}$ lb., 75c., lb. \$2.50.

Early Snowball. Small, and of rapid growth; pure white, **13510**, oz. 25c., $\frac{1}{4}$ lb. 85 c., lb. \$3.00

Early Teltow. Very small, early, distinct flavor, fine for pickling, **13520**, oz. 20c., $\frac{1}{4}$ lb. 60c., lb. \$2.00.

Globe-shaped Red-top. A standard sort in the New York market.... **13530**

Globe Pomeranian White. Good either for table or stock..... **13540**

Globe Large White Strap Leaf...... **13544**

Jersey Lily (White Model). Snow-white; globular..... **13570**

Kashmyr Scarlet. Bright, handsome color; small; flat; extra early; pure white flesh of finest quality..... **13580**

Milan, Early Purple-Crown. Earliest of all; white, with purple top. Flesh of fine quality and tender..... **13590**

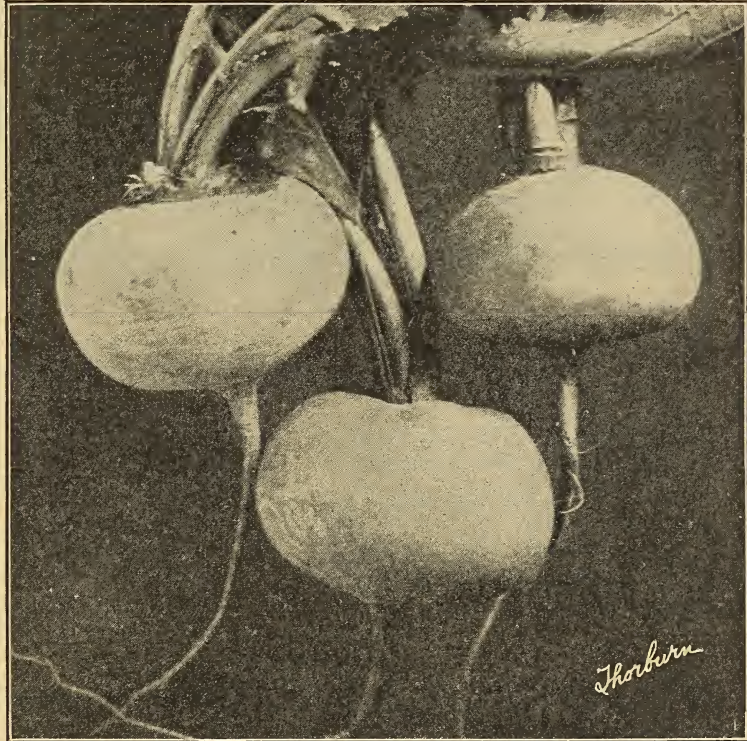
Milan, Early Pure White. Very handsome; pure white; crisp and tender; as early as above..... **13600**

Norfolk, Green Top, White Flesh...... **13610**

Strap-Leaf, White. A good early, white flat sort..... **13640**

Strap-Leaf, Red-Top. The popular fall flat sort..... **13650**

White Egg. Oval; handsome and sweet..... **13680**



Early Snowball Turnip

	Oz.	$\frac{1}{4}$ Lb.	Lb.
Globe-shaped Red-top.	\$ 30	\$0 85	\$3 00
Globe Pomeranian White.	20	60	2 00
Globe Large White Strap Leaf.	25	75	2 75
Jersey Lily (White Model).	30	85	3 00
Kashmyr Scarlet.	20	60	2 25
Milan, Early Purple-Crown.	25	85	3 00
Milan, Early Pure White.	25	85	3 00
Norfolk, Green Top, White Flesh.	20	60	2 00
Strap-Leaf, White.	25	75	2 50
Strap-Leaf, Red-Top.	25	75	2 50
White Egg.	25	85	3 00

YELLOW VARIETIES

Aberdeen Yellow.	Hardy, productive and a good keeper.....	13750	25	75	2 50
Amber Globe.	Fine, sweet, light yellow sort.....	13755	20	50	1 75
Golden Ball.	Very handsome; keeps fairly well.....	13780	25	75	2 50
Seven Top.	Tops used for greens.....	13830	20	50	1 50

All 5 cents per packet

We pay postage or express charges on all garden seeds bought by the packet, ounce or quarter-pound.

TURNIP—Continued

RUTABAGA

		Oz.	¼ Lb.	Lb.
Budlong White Rock. Very early, round and white.....	13854	\$0 25	\$0 75	\$2 50
Thorburn's Family. For family use	13850	25	85	3 00
Champion Purple Top. Very large.....	13844	25	75	2 50
White Rutabaga	13870	25	75	2 50
Yellow Perfection. Extra fine.....	13930	25	75	2 50

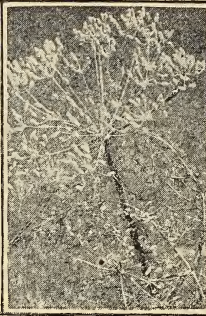
All 5 cents per packet



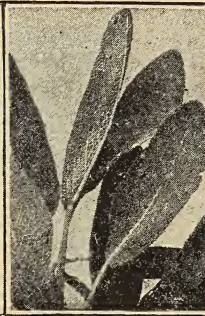
Peppermint



Lavender



Sweet Fennel



Sage



Summer Savory

Seeds of Pot, Sweet and Medicinal Herbs

		Pkt.	Oz.	¼ Lb.
Agrimony. For medicinal purposes.....	<i>Agrimonia officinalis</i>	14000	\$0 25	
Angelica, Garden. For flavoring wines and cakes.....	<i>Archangelica officinalis</i>	14010	10	\$0 50
Anise. Seeds aromatic and carminative.....	<i>Pimpinella anisum</i>	14020	10	30
Balm. For culinary purposes.....	<i>Melissa officinalis</i>	14040	10	50
Basil, Sweet. Culinary herb used for flavoring soups, etc.....	<i>Ocimum Basilicum</i>	14050	10	25
Basil, Dwarf or Bush. Culinary herb.....	<i>Ocimum minimum</i>	14060	10	50
Belladonna. Used for Medicine.....	<i>Atropa Belladonna</i>	14070	25	
Bene. The leaves are used for dysentery.....	<i>Sesamum orientale</i>	14080	10	20
Borage. Leaves used as a salad.....	<i>Borago officinalis</i> , see page 20.....	240		
Caraway. For sowing. Used in flavoring liquors and bread.....	<i>Carum Carui</i>	14100	10	50
Coriander. Seeds aromatic. For sowing.....	<i>Coriandrum sativum</i> , per lb., \$1.00.....	14130	05	10
Dill, Mammoth. Seeds used for flavoring vinegar. Larger than the ordinary variety.....	.....	14154	10	20
Elecampane. Has tonic and expectorant qualities.....	<i>Inula Helenium</i>	14160	25	60
Fennel, Sweet. Seeds aromatic; for flavoring.....	<i>Anethum Foeniculum</i>	14170	10	20
" Florence. In flavor resembling celery.....	<i>Anethum Foeniculum</i>	14180	10	25
Hemlock. Has medicinal qualities. Poisonous.....	<i>Conium maculatum</i>	14210	25	1 00
Henbane. Has medicinal qualities. Poisonous.....	<i>Hyoscyamus niger</i>	14220	10	50
Horehound. Has medicinal qualities.....	<i>Marrubium vulgare</i>	14230	10	50
Hyssop. Has medicinal qualities.....	<i>Hyssopus officinalis</i>	14240	10	60
Lavender. True. For oil and distilled water.....	<i>Lavandula vera</i>	14250	25	1 00
" Possessing qualities as above in a lesser degree.....	<i>Lavandula spica</i>	14260	10	50
Marigold Pot. Single. For medicinal purposes.....	<i>Calendula officinalis</i>	14280	10	25
Marjoram, Sweet. Is used in seasoning.....	<i>Origanum Majorana</i>	14290	25	1 00
" Pot. Used in seasoning.....	<i>Origanum onites</i>	14294	25	
Mint. Peppermint.....	<i>Mentha piperita</i>	14310	25	
" Curled.	<i>Mentha crispa</i>	14300	25	
Pennyroyal. Has medicinal qualities.....	<i>Hedeoma pulegioides</i>	14320	25	1 00
Sage, Broad-Leaf. A culinary herb; also used in medicine.....	<i>Salvia officinalis</i>	14360	25	1 00
" Red. Used as a culinary herb; also in medicine.....	<i>Salvia Horminum</i>	14370	10	50
" Purple. Used as a culinary herb; also in medicine.....	<i>Salvia Horminum</i>	14380	10	50
Savory, Summer. Is used as a culinary herb.....	<i>Satureja hortensis</i>	14390	10	50
" Winter. Is used as a culinary herb.....	<i>Satureja montana</i>	14400	10	50
Tansy. Generally used in bitters.....	<i>Tanacetum vulgare</i>	14410	15	75

We pay postage or express charges on all garden seeds bought by the packet, ounce or quarter-pound.

Tarragon. True. Does not produce seed. Roots in fall and spring. 35c. each, \$3.50 per doz.	<i>Artemisia Dracunculus</i>	14420	Pkt.	Oz.	¼ Lb.
Thyme, English		14430	10	\$0 60	\$2 00
“ French	<i>Thymus vulgaris</i>	14440	10	75	2 50
Wormwood. Has medicinal qualities.	<i>Artemisia absinthium</i>	14460	10	60	

TOBACCO SEED

			Oz.	¼ Lb.
Climax. A cross between Burley and Sterling; fine bright variety		14610	\$0 50	\$1 50
Connecticut Seed Leaf. The popular sort, used for cigar wrappers.		14620	50	1 50
Conqueror. Superb bright yellow.		14622	50	1 50
Gold Finder. A cross between Yellow Oronoka and White Burley		14626	50	1 50
Gooch, Long-Leaf, Improved. Fine for sandy soils.		14628	50	1 50
Havana. Seed gathered for us from the celebrated plantations of the “Vuelto de Abajo”		14630	60	2 00
Hester Improved. Yellow; fine for cigars. Adapted to a greater variety of soils and to a wider range of latitude than most other yellow sorts.		14634	50	1 50
Kentucky Yellow. Leaf of large size, handsome shape, excellent quality and of surprisingly fine texture, taking size into consideration.		14650	50	1 50
Oronoka White-Stem. Plants are large, with long, medium-broad leaves of handsome shape, fine texture and good body		14662	50	1 50
“ Yellow. A reliable old yellow variety.		14664	50	1 50
“ Sweet. Plants of medium size; leaf is long and somewhat narrow, fine-grained and of sweet flavor.		14668	50	1 50
Pennsylvania Seed Leaf. A first-class standard cigar variety.		14670	50	1 50
Persian Rose. Fine, may be relied upon to make fine cigars.		14680	50	1 50
Pryor, Blue. The genuine James River favorite.		14690	50	1 50
“ Yellow. Preferred by many for brights; succeeds where the other yellow sorts fail.		14700	50	1 50
Safrano. Rich saffron-yellow color; soft silky texture and fine flavor.		14710	50	1 50
Sterling. The newest and brightest of the yellow type, and the earliest to ripen.		14720	50	1 50
Sumatra. Imported; well-known sort; needs no description.		14724	1 75	6 00
“ Deli.		14728	1 75	6 00
Turkish. Imported. Needs no description.		14734	1 75	6 00
Tuckahoe. Extra fine, long leaf; fine for wrappers.		14730	50	1 50
Virginia Oak Hill Yellow. Resembles White Burley in color and Oronoka in shape and habit. Unsurpassed in delicacy of fiber.		14740	50	1 50
Virginia “One-Sucker.” Large, wide, lance-shaped leaf; rather coarse than fine.		14750	50	1 50
White Burley, Improved. Leaf is large and broad, with yellowish white stem and ribs.		14756	50	1 50
Yellow Mammoth. Large yielder.		14760	50	1 50

All 10 cents per packet. Not less than 10 cents' worth sold

BIRD SEED, ETC.

Prices of Bird Seed fluctuate considerably throughout the year. The prices now quoted are those ruling as we go to press, and may be higher or lower as the season advances. Bags and transportation charges extra.

	Lb.		Lb.
Canary Seed, Plain. Best grade.	\$0 30	Millet, Golden.	\$0 12
Canary Seed, Mixed. Best grade.	25	Rape.	20
Hemp.	20	Gravel for Cages.	per qt., 10 cts.
Sorghum, Mixed (Kaffir Corn). For pigeons, etc.	25 lbs. \$2.50, 50 lbs. \$4.50	Cuttlefish Bone	60
Lettuce Seed.	40	Sunflower Seed for Parrots.	15

VEGETABLE PLANTS

We shall have some of the standard sorts at their proper seasons

ESCULENT PLANTS AND ROOTS

	Per 10	100	1000
Artichoke Roots, Jerusalem.			per qt., 25 c., per bushel, \$5.00
Asparagus Roots. Plant either in fall or spring.			
“ Colossal. Two years old; in bundles of 50.		50 for 60 cts.	\$1 00 \$9 00
“ Three years old.		50 for \$1.00	1 50 14 00
“ Four years old; for forcing.		50 for 1.25	2 00 18 00
Giant Argenteuil. Two years old.		50 for 75 cts.	1 25 11 00
“ Three years old.		50 for \$1.00	1 50 14 00
Palmetto. Two years old; in bundles of 50.		50 for 60 cts.	1 00 9 00
Columbian Mammoth. Two years old.		50 for 75 cts.	1 25 11 00
Barr's Mammoth. Two years old.		50 for 60 cts.	1 00 9 00
Chicory. (Witloof, French Endive). Fine strong roots for forcing. See page 27.			5 00
Chive Plants. Plant early in spring.		per bunch, 25 cts.	
Horse-Radish Roots. Cut in pieces. Plant in spring.	\$0 15	1 00	
“ “ “Maliner Kren.” In bundles of 50.		1 25	
Rhubarb Roots. Strong.		each, 25 cts.	2 00
Tarragon Plants. (<i>Estragon</i>)		each, 35 cts.	3 00

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ALL CAREFULLY SELECTED STANDARD WORKS

Delivered free in the United States

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Lawns like this can be produced by sowing Thorburn's Lawn Grass Seed

About Lawns and Lawn Grass Seed

Formation of Lawns from Seed

There is nothing more attractive than a well-kept lawn.

Many things are to be considered in connection with the making and proper care of lawns. A good lawn cannot be made in one season, success coming only through intelligent care for a period of years.

The ground should be thoroughly drained and well prepared. The soil ought not to be too rich, as a rapid growth is not wanted in the grasses of a lawn; but the surface should be as much alike in quality as possible and thoroughly pulverized. *After sowing, the ground should be rolled and cross-rolled in order to press the seed firmly into the soil,* and ten days or so thereafter a light application of Thorburn's Lawn Fertilizer, mixed with an equal quantity of good loam or sand, will serve to stimulate the growth of the young grasses. The proper time to sow grass seed depends, of course, upon the latitude. In the central and eastern states from March 15 to the middle of May is the best time; but in favorable seasons the sowing may be done up to July 1. Seed may also be sown in the Fall, from the latter part of August to the end of September. The sowing should be done when the ground is moist, or before an expected rain, and a subsequent rolling is always advisable. As to weeds in newly-made lawns, it may not be generally known that many weed seeds actually lie dormant in the ground for six or seven years and will germinate and make their appearance when the soil is turned up. The annual wild grasses, such as crab grass or Summer grass, must be pulled up by the roots before they ripen their seed in the Fall.

Rolling.—As soon as the frost is out of the ground in the Spring, the land should be gone over with a heavy roller. Winter frosts loosen the soil, and rolling is necessary to compress it again. Roll frequently.

Mowing.—All turf-forming grasses are improved, both in vigor of root-growth and in fineness of texture, by frequent mowings. It is impossible to say just how often the grass should be mown, as that depends upon the rate at which it grows. Too close cutting should be guarded against, however, especially during the hot Summer months, when the roots require some top-growth to protect them from the burning sun. A good top growth is also necessary to protect the roots from severe Winter frosts.

To Grass a Bank or a Terrace.—For each square rod, take a pound of Terrace Lawn Grass Seed and mix it thoroughly with 6 cubic feet of good, dry garden loam; place in a tub, and add liquid manure, diluted with about two-thirds of water, so as to bring the whole to the consistency of mortar. The slope must be made perfectly smooth, and then well watered, after which the paste should be applied, making it as even and thin as possible.

It is a good plan to sow on good land, in any out-of-the-way place, strips for sod to be used for patching poor parts of the lawn, or for grass borders, etc. The best mixture of seed for this purpose is *Cynosurus cristatus* (Crested Dog's-tail), Kentucky Blue Grass and Fancy Red Top.



This Lawn was sown with Thorburn's Lawn Grass Seed Mixture for Shady Spots

Lawn Grass Seed Mixtures

Prices of all Lawn Grasses include free delivery in the United States by mail, express, or freight, at our option.

THE THORBURN LAWN GRASS SEED

Many of the finest lawns in America were produced from this mixture. It is composed exclusively of permanent grasses that will make a finer and thicker turf the older they become, and yet give a rich greensward in three or four weeks from the time of sowing. Sow at the rate of 80 to 100 pounds to the acre. One pound of our Lawn Grass Seed will sow a plot of 400 or 500 square feet.

1/2 Lb.....\$0 30	2 Lbs.....\$1 00	10 Lbs.....\$3 50
1 Lb.....55	5 Lbs.....2 00	25 Lbs.....8 00
	100 Lbs.....30 00	

Thorburn's Lawn Grass Seed for the South

A mixture of grasses that stand extremes of heat and drought well, will grow and thrive vigorously under these conditions and are therefore peculiarly adapted for Southern lawns.

1 Lb.. ..\$0 65	10 Lbs.....\$4 50
2 Lbs.....1 25	25 Lbs.....10 00
5 Lbs.....2 50	100 Lbs.....37 00

Thorburn's Lawn-Restoring Grass Seed

A mixture of grasses peculiarly suited to take firm hold and grow quickly on hard, worn-out or burned spots. The best time to re-sow such places is very early in the Spring; but seed may also be sown with good results in the Fall from the first of September to the first of October. Some **Lawn-Restoring Grass Seed** should also be sown before every Summer rain on thin places.

1 Lb.....\$0 65	10 Lbs.....\$ 4 50
2 Lbs.....1 25	25 Lbs.....10 00
5 Lbs.....2 50	100 Lbs.....37 00

Thorburn's Grass Mixture for Under Trees and Shady Spots on Lawns

A mixture of grasses that thrive in shaded situations, under trees or close to walls.

1 Lb.....\$0 60	10 Lbs.....\$ 4 00
2 Lbs.....1 10	25 Lbs.....9 00
5 Lbs.....2 25	100 Lbs.....33 00

Thorburn's Lawn Grass Mixture for the Seashore

A mixture of fine grasses peculiarly suited to seaside lawns.

1 Lb.....\$0 60	10 Lbs.....\$ 4 00
2 Lbs.....1 10	25 Lbs.....9 00
5 Lbs.....2 25	100 Lbs.....32 00

Terrace Lawn Grass Seed

A mixture of fine, stoloniferous grasses peculiarly adapted to terraces.

1 Lb.....\$0 60	10 Lbs.....\$ 4 00
2 Lbs.....1 10	25 Lbs.....9 00
5 Lbs.....2 25	100 Lbs.....33 00



Photo of part of Wee-Burn Golf Course made from seed supplied by us

Permanent Grass Seed for Golf-Links, Tennis-Courts, Polo-Grounds, etc.

We have devoted much attention to the seeding and preservation of golf-links, tennis-courts and polo-grounds, and offer the following mixtures, *which have been used on many of the finest links, etc., in this country*, with very satisfactory results.

Bags at Cost and Transportation Extra.

Prices Subject to Market Fluctuations During the Season.

Polo-Grounds Mixture

A mixture of fine leaved and deep-rooting grasses forming a strong and lasting turf that will stand hard usage.

25 Lbs.....	\$9 00	100 Lbs.....	\$35 00
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Tennis-Court Mixture

A mixture of extra-fine grasses peculiarly adapted to tennis-courts. This mixture will make a firm, green and lasting turf of the finest texture, that will improve with the trampling it receives.

1 Lb.....	\$0 60	10 Lbs.....	\$ 4 00
2 Lbs.....	1 10	25 Lbs.....	9 00
5 Lbs.....	2 25	100 Lbs.....	33 00

GOLF LINKS

Fair-Green Mixture

For the grounds in general.

25 Lbs.....	\$9 00	100 Lbs.....	\$35 00
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Putting-Green Mixture

Our own special formula as furnished all the leading golf clubs in America. A mixture of extra-fine *highest-grade* grasses, that will make a close, firm, green and lasting turf which will improve with trampling.

5 Lbs.....	\$2 50	25 Lbs.....	\$11 00
10 Lbs.....	4 50	100 Lbs.....	40 00

Grass Mixture for Railroad Banks, Etc.


A mixture of grasses with long, interlacing, matting roots that will bind steep embankments, gravelly or sandy slopes, etc., preventing washouts by rainstorms and covering with permanently green turf.

1 Lb.....	\$ 0 55	10 Lbs.....	\$ 3 50
2 Lbs.....	1 10	25 Lbs.....	8 00
5 Lbs.....	2 00	100 Lbs.....	30 00

Grass Seed Mixtures for Meadows and Pastures

It is a well-ascertained fact that thicker and more prolonged growth is produced by a mixture of many sorts of grasses than by only one or two. For every different kind and condition of soil there are grasses that are especially suitable. Some sorts do best on high ground and in dry weather; others prefer plenty of moisture. Some mature so early and others so late that from the beginning of Spring until Winter sets in there is no time when one species or another is not at its best. Grass seed may be sown either early in Spring or in Fall from the first of September to the middle of October; in this latitude the best time to sow meadow grass seed is during the late Summer and early Fall, that being the natural seeding time for grass. This will, of course, not give very much of a crop the following year; the grass will be fine and thick, but rather short, and not a heavy yield. The best meadows are seeded alone, without any "nurse" crop, while if seeded with Rye, that crop being the stronger and quicker grower will monopolize the ground so that it will be another year before much of a crop of grass can be had.

For over a hundred years our house has made a specialty of grasses. We were probably the first to introduce to this country, for commercial distribution, the many valuable natural and cultivated foreign species that now take such an important part in our agricultural economy. The formation of permanent pastures and meadows has, for many years, been a subject of careful study with us, and the following formulæ for seeding grass-lands have received universal recognition. *The quantities given are the minimum, and may often be increased to advantage.*

 **PRICES SUBJECT TO MARKET FLUCTUATIONS DURING THE SEASON
WITHOUT NOTICE**

MEADOW MIXTURES FOR ONE ACRE

No. 1. On Good Land, neither Too Dry nor Too Wet

8 lbs. Fancy Red Top.
 $\frac{1}{2}$ " Perennial Sweet Vernal.
 $\frac{1}{2}$ " Chewing's Fescue.
 10 " Perennial Rye Grass.
 17 " Timothy.
 2 " Red Clover.
 $\frac{1}{2}$ " Alsike Clover.

40 lbs. **\$10.00.**

Sow 40 lbs. to the acre.

No. 2. On High and Dry Land

8 lbs. Fancy Red-Top.
 1 " Tall Meadow Oat Grass.
 6 " Crested Dog's-Tail.
 2 " Orchard Grass.
 2 " Chewing's Fescue.
 13 " Timothy.
 2 " Red Clover
 4 " Kentucky Blue Grass.
 2 " Alsike Clover.

40 lbs. **\$12.00.**

Sow 40 lbs. to the acre.

No. 3. On Wet Late Land

12 lbs. Fancy Red-Top.
 6 " Orchard Grass.
 2 " Meadow Fescue.
 1 " Kentucky Blue Grass.
 12 " Perennial Rye Grass.
 5 " Timothy.
 1 " Red Clover.
 1 " Alsike Clover.

40 lbs. **\$11.25.**

Sow 40 lbs. to the acre.

PASTURE MIXTURES FOR ONE ACRE

No. 4. On Good Land, neither Too Dry nor Too Wet

7 lbs. Fancy Red-Top.
 7 " Kentucky Blue Grass.
 9 " Orchard Grass.
 12 " Perennial Rye Grass.
 3 " Timothy.
 2 " Red Clover.

40 lbs. **\$12.25.**

Sow 40 lbs. to the acre.

No. 5. On Dry Land

5 lbs. Fancy Red-Top.
 8 " Orchard Grass.
 10 " Timothy.
 10 " Perennial Rye Grass.
 2 " Red Clover.
 4 " Kentucky Blue Grass.
 1 " Chewing's Fescue.

40 lbs. **\$11.75.**

Sow 40 lbs. to the acre

No. 6. On Wet Land

10 lbs. Fancy Red-Top.
 10 " Orchard Grass.
 1 " Red Clover.
 12 " Perennial Rye Grass.
 2 " Timothy.
 3 " Kentucky Blue Grass.
 2 " Alsike Clover.

40 lbs. **\$12.25.**

Sow 40 lbs. to the acre.


The various Grasses used in the above mixtures are fully described on the following pages.

We are always glad to make up Special Mixtures, and are pleased to answer inquiries as to the best grasses for different purposes and for sowing on various soils under varying climatic conditions.

Grass Seeds

We desire to call particular attention to the fact that Grass Seeds are sold in the trade by sample, and each sort is divided into three or four grades of quality, according to purity, germination and weight. The price of the best grade is often double that of the ordinary. The Grass Seeds here offered by us are in every case the **VERY HIGHEST GRADE**.

Not less than one pound of any one sort sold

 **PRICES SUBJECT TO MARKET FLUCTUATIONS DURING THE SEASON WITHOUT NOTICE**

The weight per bushel, where given, is average actual weight

AGROSTIS TENUIS (*Rhode Island Bent Grass*).

Resembles Red Top (*A. vulgaris*, described below), but is of dwarfer habit, with shorter and narrower leaves. It makes a beautiful, close, fine turf, and is one of the very best grasses for lawns in mixture with other sorts. It adapts itself to almost any soil, rich and moist, or dry, sandy and sterile. 60 pounds of seed to the acre is recommended for lawns. (16 pounds to the bushel.) We find it is impossible to procure pure seed of the R. I. Bent this year. All samples show an admixture of other grasses.

AGROSTIS MARITIMA OR AGROSTIS STOLONIFERA, TRUE (*Creeping Bent, or South German Fiorin*).

The only true *Creeping Bent Grass*. The distinctive feature of this species is, as the name implies, its compact, creeping, rooting stems. It is of rapid growth and spreading habit, and the stoloniferous roots which it sends down into the soil form a strong, enduring turf that is positively improved by constant trampling. The other varieties of *Agrostis* are distinguished from this sort by their flattened, parallel surface roots. Being of fine texture, it is most valuable for lawns and putting- greens. If sown alone, 60 pounds to the acre should be used. As the true seed of *Creeping Bent Grass* comes from Germany only, it is impossible to secure any until conditions abroad are more settled.

AGROSTIS PALUSTRIS or AGROSTIS ALBA (*Red-Top; Herd's Grass*).

Unhulled. A very hardy, native perennial grass, succeeding best on moist land. It accommodates itself to a variety of soils, however, even to dry situations, and stands our hot climate admirably. It is, perhaps, the most permanent grass we have, and it enters largely into the composition of our best natural pastures. It remains green for the greater part of the year, and its long, trailing stems form a very close, matting turf that is not affected by trampling. Sow 75 pounds to the acre.

Lb.....\$0 20	25 Lbs.....\$ 4 50
10 Lbs..... 2 00	100 Lbs..... 17 00

RED-TOP GRASS, FANCY HEAVY.

Extra re-cleaned. Absolutely clean and free from chaff. Sow about 50 pounds to the acre.

Lb.....\$0 35	25 Lbs.....\$ 6 50
10 Lbs..... 3 00	100 Lbs..... 24 00

ALOPECURUS PRATENSIS (*Meadow Foxtail*).

One of the best permanent pasture grasses for rich, moist soil. Its chief characteristics are its earliness and its faculty of standing high Summer heats without burning. It prefers moist,

ALOPECURUS—Continued

low grounds, but it accepts drier situations, and makes an earlier Spring verdure than any other variety. Sow only in connection with other grasses, 3 to 4 pounds to the acre; if sown alone, 25 pounds to the acre.

Lb.....\$0 70	25 Lbs.....\$16 00
10 Lbs..... 6 75	100 Lbs..... 60 00

ANTHOXANTHUM ODORATUM (*True Perennial Sweet Vernal Grass*).

For a mixture with pasture grasses, it is valuable on account of its vernal growth, and also for continuing to throw up root foliage until late in the Autumn. For meadows, its chief merit is the fragrant odor which the leaves emit when partially dried, thus sweetening hay. It is a vegetable condiment, rather than a grass of much nutritive value. From 2 to 3 pounds to the acre when mixed with other grasses.

Lb.....\$0 90	10 Lbs.....\$8 00
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AVENA ELATIOR (*Tall Meadow Oat Grass*).

Most valuable for pasture on account of its early and luxuriant growth; it produces an abundant supply of foliage, which is relished by cattle early and late. For hay it may be cut twice a year, and for green soiling it may be cut four or five times in favorable seasons. It is very hardy, and withstands extreme drought and heat and cold. It is very valuable for our Southern states, where it is extensively cultivated for Winter grazing and for hay. 50 pounds to the acre.

Lb.....\$0 60	25 Lbs.....\$14 00
10 Lbs..... 5 75	100 Lbs..... 52 00

BERMUDA GRASS (*Cynodon dactylon*).

A most valuable grass for our Southern states, both for pasture and lawns. It is of dwarf habit, with long, creeping stems rooting at the joints and covering the ground with a matting of fine turf, which no amount of trampling will impair. It is also useful for binding drifting sand and for steep embankments subject to wash. When established it is difficult to eradicate, and is therefore unsuitable for temporary pastures. It requires heat and moisture to start it. As it cannot endure frost, it is of no value north of Virginia. It thrives in the poorest and sandiest soil, and resists extreme drought and intense tropical heat. It should be sown at the rate of 15 pounds to the acre.

Lb.....\$0 75	25 Lbs.....\$17 00
10 Lbs..... 7 25	100 Lbs..... 65 00

BLUE GRASS, Canada. See *Poa compressa*.
English. See *Festuca pratensis*.
Kentucky. See *Poa pratensis*.

GRASS SEEDS—Continued

BROMUS INERMIS (*Awnless or Smooth Brome Grass*). An erect perennial, 3 to 5 feet high; native of Hungary. The nutritive quality of its hay, however, is generally inferior to that of our standard native sorts, so that we should recommend it only for dry, arid soils where the better and more delicate grasses would not grow. It is strongly stoloniferous, its creeping rootstocks spreading rapidly under ground and giving out new plants. It is on this account undesirable for temporary meadows, being difficult to eradicate when once established. Sow 35 to 40 pounds to the acre. Prices on application.

BROMUS PRATENSIS (*Meadow Brome Grass*). A hardy perennial, 2 to 3½ feet high, much used in mixtures for meadows both for mowing and pasture. It is not recommended to be sown alone except in poor soil, on dry, stony hillsides, where better grasses will not grow. It withstands extreme cold and drought, and, if cut before flowering, it makes good hay. If left to grow older, it becomes very tough. 30 pounds to the acre.

Lb.....\$0 40	25 Lbs.....\$8 00
10 Lbs.....3 50	100 Lbs.....30 00

CYNOSURUS CRISTATUS (*Crested Dog's-tail*).

A stoloniferous perennial, forming a smooth, compact and lasting turf. It thrives best on rich, moist land, but it can accommodate itself to almost any soil. Its roots penetrate deeply into the ground, which enables it to stand severe droughts. It makes a good bottom grass and is therefore valuable in mixtures for lawns and putting-greens. It thrives well in the shade. The color is the same as that of the Kentucky Blue Grass, and it is, therefore, excellent in mixture with that sort. If sown alone, 30 pounds to the acre is none too much, but it is recommended only in mixture with other sorts.

Lb.....\$0 45	25 Lbs.....\$9 00
10 Lbs.....3 75	100 Lbs.....34 00

DACTYLIS GLOMERATA (*Orchard Grass; Cocks-foot*).

Extra re-cleaned selected stock. One of the grasses most employed in permanent meadows, either for pasture or for mowing. It is very hardy and succeeds well anywhere in the United States. It is very productive and makes excellent hay. If cut before it flowers it is less hard and the pith of the stem is soft and sweet. It blossoms about the same time as Red Clover, and is, therefore, desirable in mixture with that plant. Stock of all kinds are very fond of it, either dry or green, and it endures constant cropping better than any other grass. After being mown, it grows up quickly and yields a heavier aftermath than any other variety. It can stand considerable shade and is recommended as a pasture grass for woodlands. Its tendency to grow in tussocks is diminished if it is sown with other grasses, and also by heavy rolling in the Spring; but it is quite unsuitable for lawns. Sow about 75 pounds to the acre.

Lb.....\$0 50	25 Lbs.....\$11 00
10 Lbs.....4 75	100 Lbs.....42 00

DOG'S-TAIL, CRESTED. See *Cynosurus cristatus*.

FESTUCA ELATIOR (*Tall Fescue*). This grass succeeds best in moist, alluvial and strong, clayey soils. It is very productive and of long duration, and is especially valuable for permanent pasture. Stock of all kinds eat it readily, and its nutritive value is very great. On rich, moist lands it yields a large amount of hay of excellent quality. It is not suitable for lawns. 40 pounds to the acre.

Lb.....\$0 95	25 Lbs.....\$21 00
10 Lbs.....1 00	100 Lbs.....80 00

FESTUCA OVINA (*Sheep's Fescue*). A native both of America and Europe. In our Northwestern states there are many varieties of it, some of which grows 2 to 3 feet high. It prefers dry uplands and thrives in poor, shallow, gravelly soils, where other grasses would fail. It is very hardy, resisting extreme heat and cold. Though of dwarf growth, it grows thickly, yielding a large amount of nutritious herbage. In grass mixtures, for pastures on high and dry lands, it is especially valuable. Though a "bunch grass," it may be included in lawn mixtures as well as in fair-green mixtures on account of its fine foliage and dwarf dense growth. 35 pounds to the acre. Crop uncertain on account of the conditions abroad—will give price on application, if practicable.

FESTUCA PRATENSIS (*Meadow Fescue, or English Blue Grass*).

One of the grasses most used in permanent or temporary meadows for mowing or for pasture. It succeeds best in cold, moist, light soils, in well-drained meadows and in low valleys rich in organic matter. It should not be grown at all on warm, dry land. It does not reach its full development till the second or third years, when it far exceeds most other sorts in the quantity of its produce and nutritive matter. After being mown, it grows again very quickly. The forage, either green or dried, is very nourishing and much relished by cattle, especially when cut young. 40 pounds to the acre.

Lb.....\$0 75	25 Lbs.....\$15 50
10 Lbs.....7 00	100 Lbs.....60 00

FESTUCA (*Chewing's New Zealand Fescue*).

A variety of Hard Fescue of dwarf habit, grown with great success on poor, light, as well as heavier soils, forming a good sward where no other grass would succeed; it stands drought well and is good in mixtures for permanent pasture, golf links, or lawns. 15 pounds to the acre.

Lb.....\$0 75	25 Lbs.....\$15 50
10 Lbs.....7 00	100 Lbs.....60 00

FESTUCA TENUIFOLIA (*Slender Fescue*).

This is really a variety of *Festuca ovina*, with much finer leaves. It will grow on very dry and inferior soils, and its dwarf habit of growth and fineness of leaf render it not unsuitable for dry slopes on lawns and golf-links. It stands grazing well, is very hardy, and lasts long, and may therefore be recommended for permanent pasture on high and dry situations. 30 pounds to the acre. Crop uncertain owing to the conditions abroad—will give price on application, if practicable.

FOXTAIL. See *Alopecurus pratensis*.

GRASS SEEDS—Continued

HUNGARIAN GRASS. See *Panicum germanicum*.

JOHNSON GRASS. See *Sorghum Halepense*, p. 65.

LOLIUM PERENNE (*Pacey's Perennial Rye Grass*). Although called a perennial, it seldom lasts more than three or four years. It is the most valuable grass in Great Britain, both for pasture and for meadows, occupying there the same relative position of importance that Timothy holds here. The cool, moist climate of England seems to suit it best, yet it succeeds very well in our middle and eastern states, and adapts itself to a great diversity of soils. The seed is large and heavy, and produces a strong, verdant growth in four or five weeks after sowing. It cures into hay having a sweet flavor, and is much relished by cattle and horses. Its nutritive value, especially in mixture with Red Clover, is very great. It is excellent in mixtures for quick effects in lawns or golf-links. 60 pounds to the acre.

Lb.....	\$0 32	25 Lbs.....	\$ 6 50
10 Lbs.....	3 00	100 Lbs.....	25 00

LOLIUM PERENNE, Fancy. A carefully selected, short-seeded, dwarf-growing strain, suitable for lawns. Makes a fine green turf in three weeks.

Lb.....	\$0 32	25 Lbs.....	\$ 6 50
10 Lbs.....	3 00	100 Lbs.....	25 00

LOLIUM ITALICUM (*Italian Rye Grass*). Though lasting two or three years, under very favorable circumstances, it is practically an annual. Like the Perennial Rye Grass, it is a remarkably rapid grower, and has, in addition, the advantage of standing extremes in temperature, remaining green throughout the winter, and retaining its freshness in the hottest summer months and during prolonged drought. When sown very thickly or in mixture with other sorts, it makes a good, dense turf, and it has been used with much satisfaction on lawns as far south as Jacksonville. On rich, moist soils, it is exceedingly productive and may be cut in four or five weeks after sowing, and every six weeks after that until frost. For temporary meadows, on good soils, it is a most valuable grass. 50 pounds to the acre.

Lb.....	\$0 35	25 Lbs.....	\$ 6 75
10 Lbs.....	3 25	100 Lbs.....	26 00

OAT GRASS. See *Avena elatior*.

ORCHARD GRASS. See *Dactylis glomerata*.

PANICUM GERMANICUM (*Hungarian Grass*). One of the most valuable annual soiling plants. It grows on any ordinary soil; withstands drought well. As it is of very rapid growth, being ready for cutting within sixty days, it may be sown in this latitude as late as the middle of July for hay, or in the middle of August for green fodder. It should be cut just before blooming, when it makes a tender and nutritious hay. Sow 75 pounds to the acre. Doubtful if obtainable owing to conditions in Europe—will give price on application, if practicable.

PAPSALUM DILATATUM (*Australian Water Grass*). A somewhat leafy perennial, growing in clumps. Valuable as a pasture grass for the South, endures Summer heat and drought very well and is especially desirable for furnishing late Summer and Autumn feed, during which period it makes its principal growth. Sow lightly on the surface in warm weather. The seed should barely be covered with soil. Sow from 8 to 10 pounds to the acre, with 5 pounds of Hungarian Grass as a temporary protection. Price on application.

PHLEUM PRATENSE (*Timothy*). A native of Europe, but long ago naturalized in America, where it ranks as by far the most important of hay grasses. On moist, loamy or clayey soil it produces a larger hay crop than any other grass. It is not as well suited for light, sandy soils, though preferring a moist, temperate climate, it withstands drought and extreme heat and cold. Its hay is very nourishing and can be preserved for a long time. It should be cut when flowering, as if left later the hay becomes hard and coarse. It is often sown with Red-Top Grass and Red Clover, and the nutritive value of the hay is greatly increased by this mixture. If sown alone, at least 25 pounds to the acre should be used; with Red-Top Grass and Red Clover, 15 pounds of Timothy, 12 pounds of Red-Top Grass (Fancy) and 3 pounds of Red Clover; or with Red Clover only, 20 pounds of Timothy and 5 pounds of Clover. The seed weighs 45 pounds to the bushel. Several grades are always on the market, differing in purity and vitality, but the seed we offer is of the very highest quality and extra clean. It is always most economical to buy the highest grade, known as "Fancy."

Lb.....	\$0 23	25 Lbs.....	\$ 4 50
10 Lbs.....	2 00	100 Lbs.....	16 00

POA COMPRESSA (*Canada Blue Grass*). Highest grade. A very hardy perennial grass, with creeping root-stocks. It grows on the poorest and driest soils, sandy, gravelly or clayey, standing extremes of wetness or drought, and keeping green until the severe frosts of Winter. It is especially valuable for dairy pastures, cows feeding on it yielding the richest milk and finest butter. It is distinguished from the Kentucky Blue Grass by its flattened, wiry stems and by its decidedly bluer color. 60 pounds to the acre.

Lb.....	\$0 30	25 Lbs.....	\$ 5 50
10 Lbs.....	2 50	100 Lbs.....	20 00

POA PRATENSIS (*Kentucky Blue Grass; June Grass*). Highest grade. One of the most widely distributed and valuable native grasses. It combines more points of excellence than any other sort. It is a true perennial, lasting indefinitely and improving every year. Its densely creeping root stocks, spreading habit and smooth, even growth, fine texture, and rich green color render it one of the very best grasses for lawns. It forms a close turf, starts very early in the Spring, and lasts till frost. It succeeds in almost any soil—dry, rocky, sandy or gravelly—and stands long continued dry weather and hot suns. It takes, however, two or three years to become well established, and should, therefore, be sown only in connection with other grasses. If the soil is especially suitable, it will eventually crowd these out,

GRASS SEEDS—Continued

POA PRATENSIS—Continued

and make the finest possible sward. It is one of our most valuable pasture grasses, very productive and nutritious. 50 pounds to the acre. Price on application.

POA TRIVIALIS (*Rough-stalked Meadow Grass*).

A spreading, thickly matted, stoloniferous-rooted species, forming a fine turf, and adapted for shaded portions of lawns. It thrives on rich, moist soil and in sheltered situations, but not on dry land. Valuable for forming bottom grass in mixtures for permanent pastures. 20 pounds to the acre.

Lb.....\$0 95	25 Lbs.....\$21 00
10 Lbs..... 9 00	100 Lbs..... 80 00

RHODES GRASS (*Chloris Gayana*). A recent acquisition from Africa, grows 4 to 6 feet high. The Florida Experiment Station reports on it as follows: "Excellent for hay as well as for grazing purposes; keeps green until cut down by severe frost and then starts growing again as soon as warm weather returns. Yields enormously and can be cut 3 to 5 times." Sow 5 pounds to the acre. Present price:

Lb.....\$0 50	100 Lbs.....\$45 00
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SUDAN GRASS. This recently introduced grass belongs to the Sorghum family, and, according to the reports of the U. S. Department of Agriculture is a very valuable grass for hay, especially in sections subject to drought, making good yields nearly everywhere; it grows 4 to 9 feet high, according to cultivation, yielding 2 to 5 tons of excellent hay per acre, with as high as 9 tons under irrigation; should not be sown until the soil has become warm, about corn-planting time or a little earlier. Sow broadcast at the rate of 25 pounds to the acre.

Lb.....\$0 35	100 Lbs.....\$25 00
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RED-TOP. See *Agrostis vulgaris*.

RYE GRASS. See *Lolium italicum* and *Lolium perenne*.

RHODE ISLAND BENT GRASS. See *Agrostis canina*.

TIMOTHY. See *Phleum pratense*.

KENTUCKY BLUE GRASS. See *Poa pratensis*.

CLOVERS

We quote **present prices on Clovers** as near as it is possible to offer them at, as we go to press. We shall be very glad to quote prevailing prices on all of them from time to time, and we solicit inquiries. It is understood, of course, that **all are subject to market fluctuations without notice.**

ALFALFA, or LUCERNE (*Medicago sativa*).

Requires deep, rich, well-drained soil. The tap-root descends often to a depth of 10 to 15 feet in loose soil. It is consequently, capable of resisting great droughts. It should be sown alone (about same time as oats are sown in this section) in thoroughly prepared deeply plowed soil, at the rate of 20 to 25 pounds to the acre. It may also be sown as late as August and up to the middle of September in more southerly localities. The crop should be cut when the plant is coming into bloom. In suitable soil it is perennial, and several crops may be cut every year. American seed.

Lb.....\$0 40	25 Lbs.....\$ 8 00
10 Lbs..... 3 50	100 Lbs..... 30 00

ALSIKE, or HYBRID CLOVER (*Trifolium hybridum*). A perennial, 1 to 3 feet high, succeeding best in cold, stiff soils, and in marshy lands which are too wet for other species. It grows well in the far North and in high altitudes. A good honey plant for bees. 15 pounds to the acre.

Lb.....\$0 55	25 Lbs.....\$11 50
10 Lbs..... 5 00	100 Lbs..... 45 00

BERSEEM, or EGYPTIAN CLOVER (*Trifolium alexandrinum*). Suitable for a rotating crop on irrigated lands. It is very succulent and much relished by stock. Its value as a soil renovator is very high. Pounds, 75 cents.

BOKHARA CLOVER (*Melilotus alba*). Valuable sort for soiling and for ensilage and bees. Grows from 3 to 5 feet high; sown in rich soil it may be cut three times; lasts for years if cut before flowering. 15 pounds to the acre.

Lb.....\$0 40	25 Lbs.....\$ 8 50
10 Lbs..... 3 75	100 Lbs..... 33 00

RED CLOVER, MEDIUM (*Trifolium pratense*).

One of the most valuable farm crops of the eastern states for pasture, hay, or for turning under for green manure. Sow in the Spring, 15 pounds to the acre. Market price.

KIDNEY VETCH, or SAND CLOVER (*Anthyllis vulneraria*).

A deep-rooted, herbaceous hardy perennial plant, valuable for dry, sandy and inferior soils, upon which Red Clover will not thrive. Eaten with avidity by sheep, cattle and horses; useful in mixture for dry soils. Sow 20 pounds to the acre.

Lb.....\$0 70	25 Lbs.....\$15 00
10 Lbs..... 6 50	100 Lbs..... 50 00

CRIMSON, or SCARLET CLOVER (*Trifolium incarnatum*).

Erect annual, 1 to 2 feet high, with bright scarlet flowers. A native of southern Europe; largely grown in our southern states for improving the soil by turning under. Will not endure severe frost, and cannot be depended upon to stand the Winter north of New Jersey. It is a valuable crop for pasturage or green manure. For hay, cut when in full bloom. Sow 20 pounds to the acre.

Lb.....\$0 40	25 Lbs.....\$ 7 50
10 Lbs..... 3 50	100 Lbs..... 28 00

WHITE CLOVER (*Trifolium repens*).

White Clover is of dwarf habit, spreads rapidly and is very hardy. It is valuable in permanent pastures, being sweet and nutritious. Sow in Spring, 8 to 10 pounds to the acre.

Lb.....\$0 70

At the present time White Clover is extremely scarce and high—price for large quantities on application.

N. B. All prices are subject to market fluctuations without notice.

CEREALS

Bags charged at cost

PRICES ALL SUBJECT TO CHANGE WITHOUT NOTICE

PRICES ARE F. O. B. NEW YORK

FIELD CORN AND POP CORN

(56 Pounds to the Bushel.) All grown especially for feed.

Ears of most sorts, 8 cents each

Flint Varieties

	Qt.	Pk.	Bu.
Canada Early Yellow. Very early; yellow flint; 8 rowed.....	\$0 25	\$1 75	\$6 50
King Philip. Early; reddish yellow flint; 8 rowed.....	25	1 75	6 00
Large Yellow Flint. Deep yellow grains; medium early.....	25	1 75	6 00
Longfellow (Yellow Flint). Small cob and large grain; popular 8-rowed variety..	25	1 50	5 00
Thoroughbred (White Flint) (see also Ensilage varieties).....	25	1 75	6 00

Dent Varieties

Champion White Pearl. Large grain; 14 to 18 rows; ripens in about 95 days...	25	1 50	5 50
Iowa Gold Mine. Dent; deep grain; ripens in about 90 days.....	25	1 50	5 00
Iowa Silver Mine. Large grain; Dent; white cob, ripens in about 100 days.....	25	1 50	5 50
Leaming Early. Large; deep grains; dull yellow; early and productive.....	25	1 50	5 00

Fodder and Ensilage Varieties

Cuban Giant Ensilage. Very prolific.....	25	1 50	5 00
Red-Cob Ensilage. Abundant herbage; tall growth; fine.....	25	1 50	5 50
THOROUGHbred WHITE FLINT. Spreading habit; broad blade and small stalk; valuable for fodder, ensilage and grain. Leave only one kernel to grow in a hill.....	25	1 75	6 00
Virginia Horse Tooth. For fodder and ensilage.....	25	1 50	5 00

Pop Corn (Shelled)

(56 Pounds to the Bushel)

	Qt.	½ pk.	Pk.
Golden Queen.....	\$0 35	\$1 25	\$2 25
Red Beauty.....	35	1 25	2 25
Silver Lace.....	35	1 25	2 25
White Pearl.....	35	1 25	2 25
White Rice.....	35	1 25	2 25

MISCELLANEOUS CEREALS

ALL SUBJECT TO CHANGE IN PRICE WITHOUT NOTICE

BARLEY. (48 lbs. to bus.) Bearded. 2 bushels to the acre.....	Bus. \$3 00 3 00	OATS. (32 lbs. to the bus.) 2 to 3 bus. to the acre.....	Qt. \$0 15 15	Bus. \$2 25 2 25
Champion. Beardless.....	3 00	Canada Cluster.....	\$0 15	\$2 25
BUCKWHEAT. (48 lbs. to bus.) 2 bushels to the acre.		Tartar King.....	15	2 25
American Silver Hull. Early...About	3 50	RYE. (56 lbs. to the bus.) 1½ to 2 bus. to the acre.	1½ to 2	
Japan. Productive; large grains...About	3 50	Winter Excelsior. Sow 1½ bus. to the acre.....	15	3 00
MILLET. (50 lbs. to the bus.)		Mammoth Winter. Very fine strain, grows 6 to 7 feet high, giving 25 per cent more straw than any other variety.....	20	3 50
Golden. Extra-large, seed-heads. Lb. 100 lbs.	\$0 12 \$ 9 00	WHEAT, WINTER. (60 lbs. to the bus.) 1½ bus. to the acre.		
Japan. Barnyard (panicum Crus- galli). 30 to 40 lbs. to the acre...	15 10 00	Red Wave. Bald, red grain.		5 00
Pearl. Southern fodder-plant....	20 16 00	Klondyke. White grain; bald....		5 00
Siberian.....	10 7 50			
White French. White grain....	25 20 00			
White Wonder. Broad leaved, heavy foliage, very large heads producing immense amount of excellent fodder. Earlier than Golden Millet.....	12 10 00			



Soja (Soy) Beans

Forage, Economical and Miscellaneous Seeds

Except where noted, these seeds are not sold in packets. From 15 cts. to 25 cts. worth is the smallest quantity put up.

ALL SUBJECT TO CHANGE IN PRICE

AUSTRALIAN SALT BUSH (*Atriplex semibaccata*). Thrives in soils on which nothing else will grow, and it is highly recommended for alkali soils and all regions subject to periodical drought. It is very nutritious, and good for all kinds of live stock. Two or three pounds of seed are sufficient for an acre. The seed may be sown in beds, and the seedlings planted out when 2 inches high, 3 feet apart. Grows strong and vigorously in the driest seasons. Lb. 50 cts.

BEANS (60 lbs. to the bushel)—

Velvet Bean (*Dolichos multiflorus*). Used in the South as a forage plant, and as a fertilizer plant for turning under. Stock readily eat the vines and leaves, and the Beans, when ground with or without the pod, are used in place of oats or corn, or mixed with them. Plant in rows 4 feet apart and 1 foot in the row, 2 or 3 Beans in a place, as soon as danger of frost is past. The vines are strong and vigorous in growth, rapidly covering the ground, and bearing immense quantities of Beans. Qt. 25 cts., bus. \$5.

Soja Bean (*Glycine hispida*). Thrives well in hot and dry weather. Plant at the rate of $\frac{1}{2}$ to $\frac{3}{4}$ bushel to the acre, in drills $2\frac{1}{2}$ or 3 feet apart, and cultivate same as field corn. It does not make good hay, but is good as ensilage or green fodder.

SOJA BEAN—Continued

Holybrook Early. A vigorous, quick-growing variety. Pk. \$2.00, \$7.00 per bushel

Mammoth Yellow. The largest growing Soja Bean, valuable for green fodder and for improving the soil. Pk. \$1.75, \$6.75 per bushel

BEGGAR-WEED (Florida or Giant Beggar-Weed; *Desmodium tortuosum*). An erect, leguminous annual, growing from 3 to 8 feet high, with abundant foliage, valuable as forage or for soil renovation in subtropical regions; it also makes hay of a fine quality. It should be sown at the rate of 10 lbs. to the acre, after the ground is warm and moist. The seed should be but very lightly covered. If for hay, it should be cut just as it begins to bloom. Lb. 60 cts., 100 lbs. \$50.

BROOM CORN (*Sorghum vulgare*). (12 quarts to the acre). Broom corn succeeds in a good, deep soil, fresh but not damp, and it is very sensitive to cold.

Long-Brush Evergreen. Lb. 15 cts., 100 lbs. \$12.

California Golden Long-Brush. Grows from 12 to 14 feet high. Lb. 15 cts., 100 lbs. \$12.

BURNET, Common Field (*Poterium sanguisorba*). Perennial; makes excellent pasture for

FORAGE, ECONOMICAL AND MISCELLANEOUS SEEDS—Continued

ALL SUBJECT TO CHANGE IN PRICE

BURNET—Continued

sheep; grows on the poorest ground, on dry, sandy, or calcareous soils; resists the extremes of heat and cold; sow in April and again in September, with sainfoin, clover, rye or grass, etc. 30 lbs. to the acre. Lb. 50 cts., 100 lbs. \$45.00.

CAPER TREE (*Capparis spinosa*). Pkt. 25 cts., oz. \$1.

CASTOR BEAN (*Ricinus*). The plant from which Castor-oil is made. Lb. 30c., 100 lbs. \$25.

COTTON (*Gossypium*). Sea Island. Lb. 30 cts., 100 lbs., \$25.

Upland Big Boll. Lb. 25 cts., 100 lbs. \$20.

COWPEAS (*Vigna Catjang*). Specially adapted to warm countries; extensively grown in our Southern states, also valuable in this latitude as a fodder-plant. The chief values of Cowpeas, however, is as a green crop to plow under. The seed should not be sown till the ground has become well warmed. Sow 1 bushel to the acre, in drills; 2 or 2½ bushels to the acre is sown broadcast.

Black. Standard variety; early and very prolific. Price variable. Present quotation, Pk. \$2.00, bus. \$7.

Clay. A little later than the Black; prolific in both peas and growth of vine. Price variable. Present quotation, Pk. \$1.75, bus. \$6.75

New Era. Upright-growing, quick to mature and very prolific of peas. Price variable. Present quotation, Pk. \$2.00, bus. \$7.00

Whippoorwill. A favorite sort; makes a good growth of vine and very good for improving the land. Price variable. Present quotation, Pk. \$1.75, bus. \$6.75

EMMER. (Sometimes advertised as "Speltz," though this name is incorrect, the true Speltz being a different article.) It is grown quite extensively in the Northwest, having been brought there from Russia, where it is considered a valuable cereal on account of its hardness and drought-resisting qualities. Lb. 20 cts., 100 lbs. \$12.

ESPARSETTE. See *Onobrychis sativa*.

FETERITA. A new forage plant, similar to Kaffir Corn, but much earlier, and is a great drought resister. Sow 8 to 10 lbs. to the acre in drills. Produces large crops of both grain and forage. Lb. 15 cts., 100 lbs. \$12.

FURZE (*Ulex europæa*). Also known as Whin and Gorse. A perennial leguminous shrub. The crushed sprigs of one year's growth of this shrub furnish an excellent green fodder in Winter. It grows well on barren hillsides and in sandy soil. Sheep are fond of it. 25 lbs. to the acre. Oz. 15 cts., lb. \$1.50.

HOP SEED. Per pkt. 15 cts., per oz. \$1.

JUTE (*Corchorus*). Annual. Thrives in any good Corn ground. Sow in drills, about 8 inches apart, 4 lbs. to the acre. Requires no cultivation, as it will outstrip in growth all weeds. May be also sown broadcast, 6 or 7 lbs. to the acre. Oz. 15 cts., lb. 75 cts.

KAFFIR CORN. See Sorghum, page 65.

LENTILS. Extra large yellow. The variety commonly cultivated. Sow in spring as soon as ground can be worked, on light soil in drills. Market price on application.

LOTUS corniculatus (*Bird's-foot Trefoil*). Perennial; used in pastures. Cattle and sheep eat it readily, and it is said to be quite nutritious. It grows on the lightest and most sterile soils, and can withstand severe droughts. Is excellent for sowing in mixture for dry pastures. Lb. \$1.

villosus, or major (*Greater Bird's-foot Trefoil*). Lb. \$1.

LUPINE, White (*Large Flat Seed*). One of the best plants known for green manure, as it gathers large quantities of nitrogen from the air. It may be sown from April to July, and plowed under when in flower. The seed, when burned, is excellent manure for orange and olive trees. Lb. 25 cts. Price for quantities on application.

MILLETS. See Miscellaneous Cereals, page 62.

ONOBRYCHIS sativa (French, *Sainfoin*; *Espars-ette*). A perennial leguminous plant, belonging to the same family as Clover and Lucerne. It is a valuable plant for growing on poor land and barren hillsides. When once well established, it lasts for many years. If to be used for hay, cut just before the flowering period. Sow in Spring, covering the seeds quite deeply, at the rate of 80 lbs. to 100 lbs. to the acre. Lb. 25 cts., 100 lbs. \$15.

OSAGE ORANGE (*Machura aurantiaca*). Useful for hedges. Lb. \$1.

PEANUTS, Spanish. Used in the South as a hay and grain ration; the tops also make good forage, either green or cured. Nuts are smaller but better flavored than other sorts. Price variable; at present 25 cts. per lb., 100 lbs. \$20.

PEARL MILLET (*Penicillaria spicata*). A valuable fodder-plant for the South; is enormously productive. Sow the seed in drills 18 inches apart and 8 to 10 lbs. to the acre. Lb. 20 cts., 100 lbs. \$16.

PEAS, Canadian Field. Valuable for northern climates, for cattle-feeding, especially for milch cows. This pea also makes fine ensilage and for plowing under as a green manure has no equal. It is sown broadcast in the Spring and harrowed in 2½ to 3 bushels to the acre. If sown with oats, about 1½ bushels to the acre. Price variable; present quotation qt. 30 cts., bus. \$6.

PENICILLARIA spicata. See Pearl Millet.

POPPY, Opium (*Papaver somniferum*). The seed furnishes an agreeable sweet oil, used for the table, also for painting and for illuminating. May be sown in Spring, either broadcast or in drills, covering thinly. Also cultivated for opium. Oz. 50 cts.

RAPE, Dwarf Essex English (*Brassica napus*). Largely grown in the northern United States and in Canada. It is excellent for sheep-pasture and also for soiling. It may be sown in May, and will be ready for pasturing in July and August; or, it may be sown in June or July, and yet furnish a large amount of pasture or fodder. In drills, sow 5 lbs. to the acre; sown broadcast, 10 lbs. to the acre. Price variable; present quotation, lb. 25 cts., 100 lbs. \$20.

REANA luxurians (*Teosinte*). (Short crop.) A valuable fodder-plant from Central America, in growth resembling Indian corn. Well

FORAGE, ECONOMICAL AND MISCELLANEOUS SEEDS—Continued

ALL SUBJECT TO CHANGE IN PRICE

REANA—Continued

adapted to our Southern states. Oz. 15 cts., lb. \$1.

RICE SEED. For sowing. Best Carolina. Lb. 25 cts., 100 lb. \$20.

SAINFOIN. See *Onobrychis*, page 64.

SALT BRUSH. See Australian Salt Bush, page 63.

SORGHUM. Twenty-five pounds required to the acre if sown in drills. For dry fodder, 2 bushels should be sown to the acre.

Early Amber Sugar Cane. Ripens wherever Indian corn matures. Grows 10 to 12 feet high. Lb. 15 cts., 100 lbs. \$10.

Brown Dhoura. Lb. 15 cts., 100 lbs. \$12.

Halepense (Johnson Grass). One of the most valuable Southern fodder plants. On rich soils it may be cut three or four times in a single season, and it is claimed that hay made from it is equal in value to Timothy. Sow in August and September, 35 to 40 lbs. to the acre. Lb. 30 cts., 100 lbs. \$25.

Holcus saccharatus (Sugar Millet). Rich in saccharine matter, and a large amount of nutritive fodder can be obtained from it. Lb. 25 cts., 100 lbs. \$20.

Jerusalem Corn (White Dhoura). Lb. 20 cts., 100 lbs. \$15.

Red Kaffir Corn, or Sorghum. Non-saccharine. The plant is low, stalky, perfectly erect. The whole stalk, as well as the blades, cures into excellent fodder, and in all stages it is available for green feed. Lb. 15 cts., 100 lbs. \$10.

White Kaffir Corn. Lb. 15 cts., 100 lbs. \$9.

Early Orange Sugar Cane. Ripens about ten days after Early Amber, and is said to produce a larger crop. Lb. 15 cts., 100 lbs. \$10.

Shallu. A non-saccharine Sorghum from India, also known as Egyptian wheat. Requires more

SHALLU—Continued

room to develop than ordinary Sorghum, and consequently needs less seed to sow an acre. Lb. 15 cts., 100 lbs. \$10.

White Milo-Maize. Lb. 15 cts., 100 lbs. \$10.

White Dhoura (See Jerusalem Corn).

Yellow Branching (Yellow Milo Maize). Non-saccharine; useful for the large amount of foliage, green feed or cured fodder that it furnishes, and for its grain. Lb. 15 cts., 100 lbs. \$10.

SPURRY (*Spergula arvensis*). Annual. Grows well on poor, dry, sandy soil; may be sown every month from March to August. Excellent pasture for cattle and sheep; also of much value as a fertilizer for light soil. 15 lbs. to the acre. Lb. 25 cts., 100 lbs. \$20.

Giant Spurry. Lb. 25 cts., 100 lbs. \$20.

SUNFLOWER, Large Russian. Lb. 15 cts., 100 lbs. \$12.

TEOSINTE. See *Reana luxurians*, page 64.

TOBACCO SEED. See page 50.

ULEX europaea. See Furze, page 64.

VELVET BEAN. See page 63.

VETCHES, Spring Tares (*Vicia sativa*). Sown broadcast at rate of 60 to 100 lbs. to the acre, like wheat or barley, and sometimes mixed with oats for soiling. Used in France and Canada as a substitute for Peas. Price variable. Present quotation, lb. 20 cts., 100 lbs. \$15.

Sand, Winter or Hairy Vetch (*Vicia villosa*). Thrives on poor, arid, sandy soils. It may be sown either in Fall or Spring, mixed with rye for a support. Grows 3 to 4 feet high, and can be cut as soon as the bloom appears and again for seed. Perfectly hardy. Sow from 30 to 50 lbs. to the acre. Price variable. Present quotation, lb. 35 cts., 100 lbs. \$30.

FARMOGERM

The Original and Genuine Seed Innoculant

A preparation of high-bred, nitrogen-gathering bacteria in sealed bottles, ready to use, with water added, according to directions. Prepared for the following crops:

White Clover	Cowpeas
Red Clover	Vetches
Crimson Clover	Canada Field Peas
Alsike Clover	Garden Peas
Alfalfa Clover	Sweet Peas
Garden Beans	Soy Beans

Price per acre bottle, \$2.00; per five-acre bottle, \$7.50. State for what crop Farmogerm is wanted, when ordering.

Also in garden size, enough for 1,000 square feet or a 200-foot row, at 50 cts. per bottle, for Peas, Beans, Sweet Peas and White Clover, each crop requiring a different bottle. We secure cultures fresh from the laboratory, hence it takes two or three days to fill orders.

MULFORD CULTURES

FOR INNOCULATING ALL LEGUME CROPS with Nitrogen-fixing bacteria to INCREASE THE CROP and IMPROVE THE SOIL.

5 acre size \$5. 1 acre size \$1.50. ¼ acre size \$.50. Small size 25 cts. The small size only supplied in 4 varieties for Garden Peas, Garden Beans, Lima Beans and Sweet Peas. Always specify on your order what crop you want to inoculate, a different strain being used for each legume.



on your order what crop you want to inoculate, a

Tree and Shrub Seeds

To preserve seeds of Conifers and other Evergreen Trees, it is best to keep them in perfectly dry sand until the time of sowing. For this latitude the seeds should be sown thinly, as early in the Spring as the ground can be worked, in beds of fine, sandy loam. Cover to the depth of about the thickness of the seed, and press the beds gently with the back of the spade to firm the earth around the seeds. Great care must be taken not to give too much water, as the young plants damp off very easily. Water with a very fine rose, but never so that the ground becomes soggy. Some shade must be used to protect the young plants from the hot sun and winds, and to keep the birds from destroying them. Seeds of the rarer sorts may be sown in coldframes or boxes; if in coldframes the sashes should be shaded and the frames raised at the corners 3 or 4 inches to allow the air to circulate freely. Keep the young plants well weeded, and allow them to remain one to two years before transplanting.

The propagation of Deciduous Trees from seed is less difficult than that of Evergreen species. Acorns, Hickorynuts, Chestnuts and Walnuts should be planted in Autumn, or kept during the Winter in earth or moss. They shrivel up by too long exposure to the air, and many of them lose their vitality. Those seeds with hard shells, like the Locust, Gymnocladus, etc., should be planted in Autumn or placed in boxes with sand, and exposed to frost before planting. They may not germinate till the second year after planting, and if they are received too late in the Spring to expose them to the action of the frost, they may be put into a vessel of hot water for an hour or so before planting. American Elm, Silver Maple and a few other sorts ripen their seeds early in Summer, and, if gathered and planted soon after they fall from the tree, will make fine plants the same season. The seeds of other Deciduous Trees and Shrubs should be planted from the middle of April to the middle of May, in drills about 2 feet apart, and covered about $\frac{1}{2}$ inch in depth, according to size.

Some of the varieties here offered are on hand now; a few are due from foreign countries, where they are being collected for us. Owing to the disturbance left by the war in Europe, we are, of course, uncertain of getting all of them. As the season advances, many sorts become worthless from various causes, or are sold out, and cannot be replaced until the new crop is ready next season.

EVERGREEN TREE AND SHRUB SEEDS

We do not sell Tree or Shrub Seeds in quantities of less than an ounce of any one variety, except those quoted at 25 cts. per packet.

	Per oz.	Per lb.		Per oz.	Per lb.
Abies			Libocedrus decurrens (California		
amabilis (Silver Fir).....	\$0 80	\$8 00	White Cedar).....pkt. 25c...	65	6 50
canadensis (Hemlock Spruce)...	80	8 00	Picea Douglasii (Douglas Spruce) ..	60	6 00
concolor (Calif. White Silver Fir)	40	4 00	Englemanni.....	80	8 00
grandis (Great Silver Fir of			Menziesii (Menzie's Fir).....	75	7 50
Oregon).....pkt. 25c....	50	5 00	Ajanensis. From Japan.....	75	7 50
magnifica (Superb Silver Fir)....	30	3 00	pungens (Colorado Blue Spruce)	50	5 00
Martensiana (Calif. Hemlock)			rubra.....	75	7 50
.....pkt. 25c....	1 50		Pinus		
nobilis (Noble Fir).....	80	8 00	australis or palustris (Southern		
Arborvitæ. See <i>Thuja</i> .			Pine).....	25	2 50
Arbutus Menziesii (Madrone Tree)	30	3 00	Banksiana (Jack Pine).....	60	6 00
Arctostaphylos glauca (Great-ber-			contorta (Scrub Pine).....	60	6 00
ried Manzanita).....	20	2 00	densiflora (Japan Pine) ...	25	2 50
Buxus sempervirens (Evergreen			Edulis (American Nut Pine).....	40	4 00
Box).....	25	2 50	heterophylla (or Caribæa or		
Cupressus			Slashed Pine).....pkt. 25c...	70	7 00
macrocarpa (Monterey Cypress)	45	4 50	insignis (Monterey Pine)	45	4 50
Cedrus Libani (Cedar of Lebanon)	30	3 00	inops (New Jersey Scrub Pine)	75	7 50
Fir Tree. See <i>Abies</i> and <i>Picea</i> .			Jeffreyana (Jeffrey's Pine).....	45	4 50
Juniperus			koraensis. From Japan.....	25	2 50
virginiana (Red Cedar).....	10	1 00	Lambertina (Sugar Pine).....	45	4 50
			laricio (Corsican Pine).....	20	2 00
			maritima (Seaside Pine).....	15	1 50
			mitis (Short leaved Pine).....	65	6 50

EVERGREEN TREE AND SHRUB SEEDS—Continued

	Per oz.	Per lb.		Per oz.	Per lb.
PINUS—Continued			Spruce Tree. See <i>Abies</i> and <i>Picea</i> .		
monticola (Mountain White Pine)	\$0 80	\$8 00	Taxus baccata (English or European Yew)	\$0 35	3 50
Muricata (Bishop's Pine)	60	6 00	Thuja		
Pinea (Stone Pine)	10	1 00	gigantea (Giant Oregon Arborvitae)	60	\$6 00
ponderosa (Heavy Pine)	30	3 00	orientalis var.; compacta (Chinese Arborvitae)	20	2 00
Pentaphylla (from Japan)	45	4 50	occidentalis (American Arborvitae)	45	4 50
rigida (Northern Pitch Pine)	50	5 00	Tsuga canadensis	75	7 50
Sabiniana (Sabine's Nut Pine)	25	2 50	Carolina	1 00	.....
Strobus (White Pine)	35	3 50	Yucca		
Torreyana (Torrey's Pine)	45	4 50	filamentosa (Adam's Needle)	40	4 00
Schinus molle (False Pepper)	25	2 50	gloriosa	75	7 50
Sciadopitys verticillatus (Umbrella Pine of Japan)	30	3 00			
Sequoia gigantea	1 25	12 00			
sempervirens (California Redwood)	75	7 50			

DECIDUOUS TREE AND SHRUB SEEDS

We do not sell Tree or Shrub Seeds in quantities of less than an ounce of any one variety, except those quoted at 25 cts. per packet.

	Per oz.	Per lb.		Per oz.	Per lb.
Acer saccharum (Sugar Maple)	\$0 30	\$3 00	Celastrus scandens (Climbing Bittersweet)	\$0 20	\$2 00
Amorpha fruticosa	15	1 00	articulatus (Staff Tree)	20	2 00
Ampelopsis quinquefolia (Virginia Creeper)	15	1 50	paniculata	20	2 00
veitchii	50	5 00	Celtis occidentalis (American False Elm)	15	1 50
Aralia cordata (Udo Salad)	30	3 00	Celphalanthus occidentalis	15	1 50
spinosa (Virginia Angelica Tree)	30	3 00	Cercidiphyllum japonicum	70	7 00
Aristolochia Siphon (Dutchman's Pipe)	65	6 50	Cercis canadensis (Am. Judas Tree)	25	2 25
Asimina triloba (Paw-paw)	20	1 75	Chionanthus Virginica (Va. Fringe Tree)	25	2 50
Azalea Vaseyi	50	5 00	Cinnamomum Camphora (Camphor)	30	3 00
Berberis canadensis	25	2 50	Cladrastis lutea (Yellowwood Tree)	50	5 00
Thunbergii. Fine for hedges	25	2 50	tinctoria	60	6 00
vulgaris (Common)	15	1 50	Clematis virginiana	25	2 50
Callicarpa americana (French Mulberry)	20	2 00	Clethra alnifolia (Sweet Pepper Bush)	15	1 50
Calycanthus floridus (Common Carolina Allspice)	15	1 50	acuminata	15	1 50
Camellia japonica. From Japan	30	3 00	Cornus alternifolia	15	1 50
Camphor. See <i>Cinnamomum</i> .			alba	20	2 00
Carpinus americana	15	1 50	circinata	45	4 50
Carya alba (Shellbark Hickory)	..	20	Cornus florida (Flowering Dogwood)	15	1 00
amara (Bitternut)	..	20	paniculata (Panicked-flowered Dogwood)	15	1 50
sulcata (Big Shellbark Hickory)	..	20	stolonifera (Osier Dogwood)	15	1 00
Castanea			Corylus americana (American Hazel)	15	1 00
americana (American Chestnut)	..	30	rostrata (Beaked Hazel)	15	1 00
Catalpa speciosa. True Hardy Catalpa	20	2 00	Crataegus		
Ceanothus			coccinea (Scarlet-fruited Thorn)	15	1 00
Americanus (New Jersey Tea)	15	1 50	cordata	15	1 50
			Crus-galli (Cockspur Thorn)	15	1 25

DECIDUOUS TREE AND SHRUB SEEDS—Continued

	Per oz.	Per lb.		Per oz.	Per lb.
Cydonia japonica (Japan Quince)..	\$0 25	\$2 50	Koelreuteria paniculata (Chinese Bladder Nut).....	15	75
Deutzia crenata	25	2 50	Larix Europæa	30	3 00
<i>scabra</i> (White Deutzia).....	25	2 50	<i>leptolepis</i> (Japanese Larch).....	40	4 00
Diospyrus Virginiana (American Persimmon).....	15	1 00	<i>occidentalis</i>	70	7 00
Dogwood. See <i>Cornus</i> .			Ligustrum ibota	25	2 50
Elæagnus umbellata	15	1 50	<i>japonicum</i>	30	3 00
<i>longipes</i> (Long-stalked Oleaster)	15	1 50	Liquidambar styraciflua (Sweet Gum).....	45	4 50
Eucalyptus			Liriodendron tulipifera	10	1 00
<i>Amygdaline</i> (Peppermint Tree)..	45	4 50	Locust. See <i>Gleditschia</i> and <i>Robinia</i> .		
<i>gigantea</i> (Stringybark Tree)....	1 00	10 00	Maclura aurantiaca (Osage Orange)	\$0 15	\$1 00
..... pkt. 25c.	1 00	10 00	Magnolia acuminata (Cucumber Tree).....	25	2 50
<i>globulus</i> (Tasmania Blue Gum)	1 00	10 00	<i>glaucæ</i> (Sweet Bay).....	30	3 00
..... pkt. 25c.	1 00	10 00	<i>grandiflora</i> (Large-flowered Magnolia).....	25	2 50
<i>leucoxydon</i> (Australian Iron Bush)	75	7 50	<i>tripetala</i> (Umbrella Tree).....	30	3 00
<i>obliqua</i> (Stringy-bark Tree)....	45	4 50	<i>macrophylla</i> (Green-leaved Magnolia).....	35	3 50
<i>pauciflora</i> (White Gum).....	80	8 00	Morus		
<i>robusta</i> (Brown Gum) pkt. 25c..	1 00	10 00	<i>alba</i> (White Mulberry).....	35	3 50
<i>rostrata</i> (Red Gum)..pkt. 25c...	1 00	10 00	<i>alba fructo nigra</i>	35	3 50
<i>Stuartiana</i> (Apple-scented Gum Tree).....	80	8 00	<i>rubra</i>	30	3 00
<i>virginialis</i> (Blue Gum).....	80	8 00	<i>tatarica</i> (Russian Mulberry)....	30	3 00
Euonymus americana (Burning Bush).....	20	2 00	Myrica		
Exychordia grandiflora	50	5 00	<i>cerifera</i> (Candleberry Myrtle)....	20	2 00
Fagus americana (American Beech)	15	1 00	<i>carolinensis</i>	20	2 00
Fremontia			Nyssa		
<i>californica</i> (Slippery Elm of California).....	1 50	..	<i>sylvatica</i> (Sour or Black Gum)..	15	1 00
Genista			<i>multiflora</i> (Sour Gum).....	15	1 00
<i>juncea</i> (fragrant Spanish Broom)	15	1 25	Osage Orange. See <i>Maclura</i> .		
<i>scoparia</i> (Scotch Broom).....	30	3 00	Paulownia imperialis (Empress Tree).....	25	2 50
<i>tinctoria</i> (Dyers Broom).....	40	4 00	Platanus occidentalis (Button Ball)	15	1 00
Gleditschia triacanthos (Honey Locust).....	15	1 00	Prunus		
Gymnocladus canadensis (Kentucky Coffee Tree).....	10	1 00	<i>americanus</i> (Wild Plum).....	15	1 50
Halesia tetraptera (Silver Bell)....	15	1 50	<i>Carolina</i>	15	1 50
Hamamelis virginica (Witch Hazel).....	15	1 50	<i>Pennsylvanicum</i>	25	2 50
Holly. See <i>Ilex</i> .			<i>Virginica</i>	15	1 50
Hibiscus Syriacus (Rose of Sharon)	15	1 50	<i>serotina</i> (Wild Black Cherry)....	15	1 00
Ilex opaca (American Holly).....	15	1 50	Rhamnus		
<i>verticellata</i> (Deciduous Holly)...	10	1 00	<i>californica</i> (California Coffee Tree).....	25	2 50
Itea Virginica (Virginian Willow)..	15	1 50	<i>carolina</i> (Indian Cherry).....	15	1 50
Juglans			Rhus aromatica (Fragrant Sumach)	25	2 50
<i>cinera</i> (Butternut).....	..	15	<i>copallina</i> (Dwarf Sumach).....	15	1 50
<i>cordiformis</i> . From Japan.....	10	50	<i>glabra</i> (Scarlet Sumach).....	15	1 00
<i>nigra</i> (Black Walnut).....	..	15	Robinia pseudacacia (Yellow or Black Locust).....	15	1 50
<i>sieboldii</i> . From Japan.....	10	50			

DECIDUOUS TREE AND SHRUB SEEDS—Continued

	Per oz.	Per lb.		Per oz.	Per lb.
Rosa canina (Brier Rose). Clean seed.....	10	1 00	Taxodium distichum (Deciduous Cypress).....	\$0 15	\$1 50
carolina (Swamp Rose).....	15	1 50	Tecoma radicans (Trumpet Creeper).....	25	2 50
multiflora.....	15	1 50	Tilia americana (American Basswood).....	15	1 25
rubiginosa (Sweet-brier).....	15	1 50	Ulex europæa (Furze, Gorse or Whin).....	15	1 50
rugosa.....	15	1 50	Vaccinium stamineum.....	15	1 50
setigera (Prairie Rose).....	20	2 00	Viburnum acerifolium (Dockmackie).....	\$0 15	\$1 50
Salisburia adiantifolia (Maidenhair Tree).....	15	1 25	dentatum.....	15	75
Sambucus canadensis (American Elder).....	15	1 00	Lantanoides (Wayfaring Tree)...	25	2 25
pubens.....	25	2 50	lentago.....	15	1 50
Sassafras officinale (Sassafras Tree).....	15	1 50	opulus (snowball).....	30	3 00
Sorbus Americana (Mountain Ash).....	30	3 00	prunifolium (Black Haw).....	15	1 00
Styrax americana.....	15	1 50	Walnuts. See <i>Juglans</i> .		
japonica.....	25	2 25	Wistaria		
Symphoricarpus			chinensis (Chinese Wistaria)....	35	3 50
racemosa (Crimson Snowberry)...	15	1 50	chinensis alba (White Chinese Wistaria).....	50	5 00
Syringa Japonica (Japan Lilac)...	30	3 00			

FRUIT SEEDS

	Per oz.	Per lb.	PLUM PITS—Continued	Per oz.	Per lb.
Apricot Pits.....	..	\$0 50	St. Julien.....	..	\$1 00
Cherry Pits , Black Mazzard, Mahaleb.....	..	80	Green Gage.....	..	30
Domestic.....	..	50	Pear , Domestic.....	30	3 00
Currant , Red Dutch.....	20	2 00	From Japan.....	30	3 00
White Dutch.....	25	2 50	Quince Seed	30	3 00
Gooseberry , Green and Yellow.	2 00	..	Raspberry , Red.....	25	2 50
Red.....	2 00	..	Yellow.....	25	2 50
Peach Pits , Natural. qt. 25c., bus. \$4.50.			Strawberry , Mixed.....	1 00	..
Plum Pits , Mirabelle.....	..	40	Red Alpine.....	2 50	..
Myrobolan.....	..	60	Vitis cestivalis (Summer Grape)...	25	2 25
			cordifolia (Frost Grape).....	25	2 25
			labrusca (Northern Fox Grape)...	25	2 25
			riparia.....	25	2 25

SEEDS OF HEDGE PLANTS

For prices see under head of Tree Seeds

Barberry	Berberis Thunbergii	Osage Orange	Maclura aurantiaca
Furze or Gorse	Ulex Europæa	Sheepberry	
Locust , Honey.....	Gleditschia triacanthos	(Black Haw).....	Viburnum prunifolium
Yellow.....	Robinia pseudacacia		

Flower Seeds

PRACTICAL DIRECTIONS FOR CULTURE, TREATMENT, ETC.

HARDY ANNUALS (hA).—Sow in April or May, according to the latitude, in shallow boxes or pots placed in a warm window, a hotbed, or, if possible, in a greenhouse. A second sowing ought to be made from two to four weeks after for succession, as well as to provide against failure the first time. For sowing seeds in there is nothing better than shallow boxes from 2 to 3 inches deep, and of any convenient size. The most suitable soil for all the smaller kinds is a very fine, rich, sandy loam. That from old hotbeds is excellent, or sods from an old pasture piled up and allowed to rot for two or three years and then mixed with a little old stable manure and sand. After the seeds are up care must be taken to give them plenty of air and moisture, yet not too much water, or they will "damp off." When the young plants are well out of the seed-leaf they must be transplanted to new boxes. If pots 2 inches or more in diameter can be had, set out from three to a dozen or more of the young seedlings along the edges of the pot, so that as soon as the ground is warm enough they may be easily turned out and planted singly, as by that time they will have made good roots. When pots cannot be had, boxes, tin cans, etc., may be substituted.

A common mistake in sowing flower, as well as other seeds, is covering too deeply. The exception to this is the Sweet Pea which is seldom planted deep enough. As a general rule, cover only to the depth of the thickness of the seeds; or, with medium-sized seeds, like Balsams, Zinnias, etc., half an inch or so is none too much. Such fine seeds as *Portulacas* need only to be pressed into the soil with a piece of board or the palm of the hand. Always press the earth down firmly after sowing all flower seeds, else there is danger of their drying up before the roots can get firm hold of the soil. Seeds of the hardier Annuals may be sown where they are to grow; but, as a rule, it is preferable to transplant, as the plants are generally stronger and stand the drought better. During very dry weather, and when the seedlings are first set out, they should be watered frequently. Provide some support for all such Annuals as require it.

The weeds should be kept down and the ground loosened often, so that the plants will receive the full benefit of the rains and dews, which they will not if the ground is allowed to become hard and baked.

Seeds of Biennials and some Hardy Annuals may be sown in July and August in the open, and in September in boxes and placed in coldframes. They will make strong plants by Spring, and flower early. Do not put on the sashes until heavy rains and frosts begin, and then always remove during the day whenever the temperature is above freezing in Winter.

Owing to the presence in most soils of Weed Seeds, it is well to mark where seeds are sown in the open, so that the weeds (which are apt to germinate first) can be destroyed before they crowd out and smother the Flower Seeds as they spring up.

HARDY BIENNIALS (hB) and HARDY PERENNIALS (hP).—These require the same treatment as the Hardy Annuals. In addition to the above, both Hardy Biennials and Perennials may be sown in the open border from July to September. The seeds of many Perennials require several months, some even as long as two years, before they germinate. It is a good plan, at the commencement of frost, to cover the plants lightly with straw, leaves or any dry litter, in order to afford some protection from the extreme severity of the Winter. As soon as the frost is out of the ground in the Spring, remove the covering and loosen the surface around the plants, which, when large enough, may be transplanted to the flower garden where they are to remain.

HALF-HARDY ANNUALS (hhA).—These may be sown in shallow boxes, pots or a hotbed, as directed for Hardy Annuals. They may be sown thus at any time after the middle of April, as the hotbed will be sufficient protection; but it is best to cover the glass with a mat or straw at night until danger of frost is past. In the day give all the air possible. After the end of May sow in the border, like Hardy Annuals.

HALF-HARDY BIENNIALS (hhB) and HALF-HARDY PERENNIALS (hhP) require the same treatment. Though plants and their blooms are greatly forwarded by sowing the seeds early in boxes under cover, it may be stated that nearly all kinds of Hardy and Half-hardy Flower Seeds may be sown in the open border in a warm and sunny spot as soon as the soil has become dry and warm; so that those who have no glass frames or greenhouses need not be without flowers. They can have them, but it will be later.

TENDER ANNUALS, BIENNIALS and PERENNIALS.—The best method to obtain an early bloom of the Tender Annuals (tA) and to insure strength to the plants, is to sow the seeds in boxes or pots in March, placing them in a warm greenhouse or plunging in a moderate hotbed, carefully protecting them from the cold, shading from the midday sun, and watering with a fine rose. The seed should be sown in a very light, sandy compost, and the pots well drained by placing broken pots or bits of sod in the bottom. The finer seeds must not be covered more than an *eighth of an inch deep*, and the soil pressed down closely over them. Water frequently, particularly if the house or hotbed is very warm. As soon as the plants are out of the seed-leaf, transplant them into shallow boxes or small pots, and when they have acquired sufficient strength transplant into the flower beds; not, however, before the middle of May.

GREENHOUSE SEEDS (g) should be sown as directed for Tender Annuals, in pans, pots or shallow boxes, and be kept in the house, carefully watched, slightly watered occasionally and sheltered from the hot sun till strong enough to transplant. Most varieties may be sown at any season of the year.

The smaller seeds of Greenhouse Plants are sometimes difficult to make germinate unless great care be taken in the mode of sowing. Hence the supposition arises that the seed itself is not good, whereas the fault is not in the seed, but in the treatment. Fine seeds of this description should be sown in leaf-mold or peat, with some fine sand added to it; press firmly down in the seed-pan or pot, and make perfectly level at the top so that the mold may not afterward sink materially with watering. Sow the seed very thinly and cover **very lightly** with a little compost or with silver sand. Success is more certain if a pane of glass is placed over the pan or box till the plants have appeared, when it should be removed. As soon as the young plants have two leaves they should be transplanted into similar composts in another pan or box. After transplanting they should be kept in a shady part of the greenhouse for a few days and watered very sparingly.



Aster, Truffants Pæony Perfection

At the time of going to press we expect to receive all the varieties we quote, but may be disappointed owing to the disturbance abroad. If permission is given us, with order, to substitute, we shall use our best judgment in sending equally good sorts for those originally ordered.

ASTER hhA One of the very best Annuals for cut-flowers

The Aster is of easy culture and very popular. Plants from seed sown in the open ground in May bloom finely in September and October. For July and August flowers sow in March or April in coldframe spent hotbed, or in pots or boxes in the house. Cover the seeds about half an inch deep with rich light soil, and when the plants have three or four leaves, transplant about 18 inches apart each way into well prepared beds. Manures too fresh or used in too large quantities sometimes induce disease in Asters. When used they should be thoroughly well decayed and mixed with the soil. Small quantities of slaked lime or fresh wood-ashes stirred into the surface of the Aster beds form good tonics for the plants and keep disease and insects from the roots.

Aster Seeds run from 3000 to 3500 in $\frac{1}{4}$ ounce.

BRANCHING Samples. Forms broad bushes, with large, long-petaled flowers, graceful and feathery in effect; excellent for cut-flowers; $2\frac{1}{2}$ ft.

Crimson.....	50145	10
Lavender.....	50150	10
Pink.....	50155	10
Purple.....	50158	10
Rose.....	50160	10
White.....	50165	10
Mixed..... $\frac{1}{4}$ oz. 85c., oz. \$3.00	50170	10
Collection of six colors.....	50180	40

COMET, Giant. Petals wavyly reflexed, curled and twisted; flowers of extraordinary size and beauty. 2 ft.

	Pkt.
Lavender.....	50272 15
Light Blue.....	50275 15
Crimson.....	50280 15
Purple.....	50282 15
Rose.....	50285 15
White.....	50295 15
Mixed..... $\frac{1}{4}$ oz. \$1.00, oz. \$3.50	50300 10
Collection of six colors.....	50310 60

ASTER—Continued

CREGO, Giant. On the style of "Giant Comet"; large flowers. Fine for cutting; 2 ft.

	Pkt.
Crimson.....	50415 15
Dark Blue.....	50420 15
Lavender.....	50425 15
Rose.....	50430 15
Shell Pink.....	50435 15
White.....	50440 15
Mixed..... ¼ oz. \$1.00, oz. \$3.50.	50445 10
Collection of six colors.....	50450 60

KING. Producing many double flowers on long stems. The blooms are very large, with long, narrow petals; strong grower.

	Pkt.
Crimson.....	50640 15
Lavender.....	50642 15
Pink.....	50644 15
Rose.....	50646 15
Violet.....	50648 15
White.....	50650 15
Mixed..... ¼ oz. \$1.00, oz. \$3.50.	50652 10
Collection of six colors.....	50660 60

OSTRICH-PLUME. Splendid class; fine for cutting; rivals the Chrysanthemum in effect.

	Pkt.
Dark Blue.....	50670 15
Rose.....	50675 15
White.....	50680 15
Mixed..... ¼ oz. \$1.00	
oz. \$3.50.....	50685 10
Collection of three colors.....	50690 30

QUEEN OF THE MARKET.

The best early Aster; of graceful, spreading habit, and bearing its flowers on long stems; 1½ ft.

	Pkt.
Crimson.....	50735 15
Purple.....	50726 15
Lavender.....	50728 15
Light Blue.....	50730 15
Pink.....	50738 15
Flesh Color.....	50742 15
Scarlet.....	50745 15
White.....	50755 15
Mixed..... ¼ oz. \$1.00,	
oz. \$3.50.....	50760 10
Collection of eight colors.....	50770 80

TRUFFAUT'S PÆONY PERFECTION.

Grows stiffly erect and about 18 in. tall. Remarkable for the brilliant colors of its great incurved flowers.

	Pkt.
Crimson.....	50850 15
Light Blue.....	50845 15
Rose.....	50855 15
Scarlet.....	50860 15
Snow White.....	50865 15
Mixed..... ¼ oz. \$1.00,	
oz. \$3.50.....	50870 10
Collection of five colors.....	50875 50

VICTORIA, Tall. Large flowers, recurved petals; a superb class; 2 ft.

	Pkt.
Dark Blue.....	50980 15
Light Blue.....	50985 15
Peach Blossom.....	50990 15
Rose.....	50995 15
Dark Scarlet.....	51000 15
White.....	51005 15
Mixed..... ¼ oz. \$1.00, oz. \$3.50.	51010 10
Collection of six colors.....	51020 60

IMPROVED AMERICAN VICTORIA (Daybreak Type).

	Pkt.
Azurea..... ¼ oz. \$1.00.	51030 10
Daybreak. Shell pink. ¼ oz. \$1.00.	51060 10
Pale Lavender..... ¼ oz. \$1.00.	51070 15
Purity. Snow white..... ¼ oz. \$1.00.	51110 15
Rose Pink..... ¼ oz. \$1.00.	51120 15

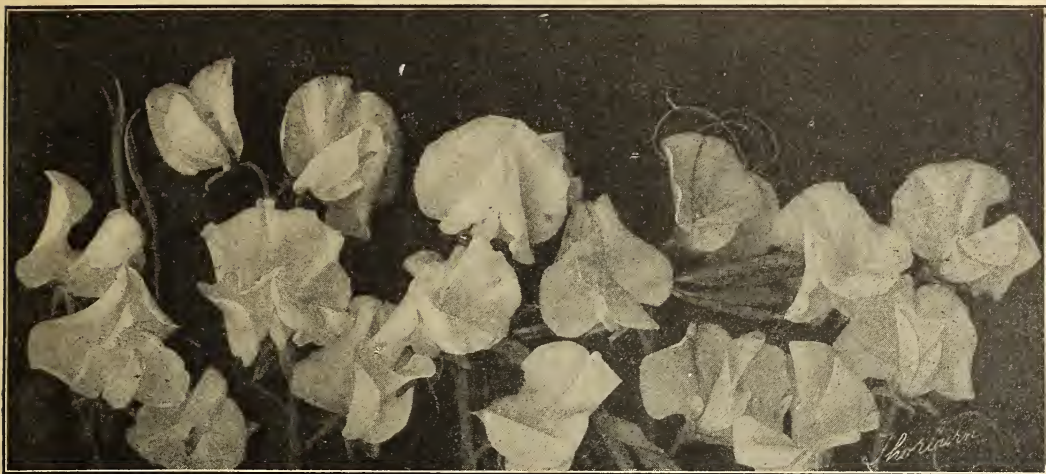
MIXED, QUILLED.

oz. 35c, per lb. \$3.50.. 51130 10

SINGLE ANNUAL MIXED... oz. 25c.. 51140 10



Aster, Violet King



Sweet Peas

(*Lathyrus odoratus*) hA

N. B.—Intending purchasers are strongly advised to order as soon as possible after receipt of catalogue.

Through the skill of specialists the Sweet Pea has become much larger and lovelier than before it became so popular. There are flowers of quite distinct shapes, some of which are a great improvement upon the Sweet Pea of the old type. For garden decoration it is now grown in clumps and in separate colors. The plants are more robust, dwarf and branching, and bloom more freely, some varieties showing three or four blooms on a stem.

A deep, rich, moist soil is best suited to Sweet Peas, hence a trench should be dug $1\frac{1}{2}$ feet deep and filled with very best loam mixed with bone meal or well rotted manure. The vines are usually grown in double rows, with a wire trellis or a row of brush between. For each double row make the drills about 12 inches deep, and 9 to 10 inches apart. Sow plentifully, covering about 2 inches deep, and, by degrees, as the vines grow up, fill the trenches with soil, and thin out to about 2 or 3 inches apart. Spring sowings should be made just as early as the ground can be prepared, white-seeded varieties should not be sown until the ground is fairly warm. The earliest flowers are from seed sown in Fall, preferably in a dry situation, and 6 to 8 inches deep, giving them level culture. Sweet Peas should not be grown on the same soil year after year. If the location cannot be changed the soil, to a depth and width of a foot or so, should be removed and replaced by soil from another part of the garden or grounds. If the soil is in good, rich condition, bone meal is the best fertilizer.

We do not sell less than 1 oz., $\frac{1}{4}$ lb. or $\frac{1}{2}$ lb. at the prices quoted per oz., $\frac{1}{4}$ lb., $\frac{1}{2}$ lb. and lb. respectively. This applies to all types and to the mixtures.

In order to assist our customers in making their selections, we group the different varieties according to color.

THORBURN'S SELECTED SWEET PEAS

ASSORTMENT containing 1 pkt. each of 40 named varieties, OUR SELECTION	52000	\$1 75
“ “ 1 “ “ “ 20 “ “ “ “	52010	85
“ “ 1 “ “ “ 10 “ “ “ “	52020	45

also

ASSORTMENT containing 1 pkt. each of 12 finest NAMED EXHIBITION

VARIETIES of SPENCER SWEET PEAS, OUR SELECTION.....52030 1 00

NAMED LARGE-FLOWERED (GRANDIFLORA) SWEET PEAS

All Five Cents per packet

Light Blue and Lavender

		Per oz.	¼ lb.
Countess of Radnor.	Lovely, delicate mauve.....	52200	\$0 10 \$0 30
Flora Norton.	A pure, bright blue.....	52220	10 30
Lady Grisel Hamilton.	Beautiful, pale lavender.....	52260	10 30

Dark Blue and Purple

Captain of the Blues.	Standard purple, wings bright blue.....	52350	10 30
Lord Nelson.	A fine rich, bright blue.....	52410	10 30
Navy Blue.	Deep violet blue.....	52430	10 30

Claret and Maroon

Black Knight.	Fine, self-colored, deep maroon.....	52480	15 40
Othello.	Fine, deep maroon.....	52520	10 30

Crimson and Scarlet

King Edward VII.	A fine, self-colored, bright crimson.....	52630	10 30
Queen Alexandra.	A fine scarlet shade.....	52670	10 30
Salopian.	Very fine, sunproof scarlet.....	52690	10 30

Orange and Salmon

Bolton's Pink.	A soft, salmon-orange pink.....	52740	10 30
Miss Willmott.	Orange pink. One of the finest.....	52820	10 30

Pink (Light Shades)

Lovely.	Shell pink, shaded light rose toward edges.....	52910	10 30
Prima Donna.	Fine; large; soft pink.....	52930	10 30

Pink (Deeper Shades)

Apple Blossom.	Bright pink and blush, beautifully shaded.....	52980	20 60
Janet Scott.	Deep pink; a fine, large flower.....	53000	10 30
Katherine Tracy.	A fine, brilliant pink.....	53020	10 30

Pink (Rose-Pink)

Prince of Wales.	A fine, self-colored rose.....	53170	10 30
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Pink and White (Bicolor)

Blanche Ferry.	Pink and white; popular sort.....	53240	10 35
Dainty.	White with pink edge; fine.....	53260	15 40

Striped and Mottled

America.	White, striped orange scarlet.....	53330	15 40
Aurora.	White, flaked and striped orange salmon.....	53350	10 35
Mrs. Joseph Chamberlain.	White, striped with rose; fine sort.....	53410	10 30
Princess of Wales.	Striped mauve on white ground.....	53450	15 40

Pure White

Blanche Burpee.	Snowy white; a fine, large flower.....	53540	15 40
Dorothy Eckford.	A grand, pure white.....	53560	10 30
Emily Henderson.	A good, early white.....	53580	10 30
White Wonder.	Double stemmed; large, white flowers.....	53680	10 30

Yellow and Buff

Hon. Mrs. E. Kenyon.	Deep primrose yellow; grand flower.....	53770	10 30
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SPENCER VARIETIES

These are noted for their unusually large-sized flowers, and for the waved or fluted appearance of the petals. They are also frequently referred to as "Orchid-flowering" Sweet Peas.

All Ten Cents per packet, except where quoted otherwise

Blue (Light and Dark Shades)

	Per oz.	¼ lb.
Afterglow.	Rich, electric shades of blue and rosy mauve; distinct.....	53870 \$0 25 \$0 75
Asta Ohn.	Lavender, tinted mauve; delicate coloring; very large flower.....	53900 20 60
Captain of the Blues Spencer.	A fine purple.....	53910 20 60
Flora Norton Spencer.	Bright blue, slightly tinged with purple.....	53920 20 60

BLUE (Light and Dark Shades)—Continued

		Soft,	Per oz.	¼ lb.
Florence Nightingale.	clear, rich lavender.....	53922	\$0 20	\$0 75
Helen Pierce Spencer.	Bright blue, flaked and striped white.....	53930	25	75
Lavender George Herbert.	Bluish lavender, superior to Nightingale.....	53931	25	75
Margaret Madison.	Beautiful azure blue	53932	25	75
Masterpiece.	Lavender.....	53935	25	75

SWEET PEAS, SPENCER VARIETIES—Continued

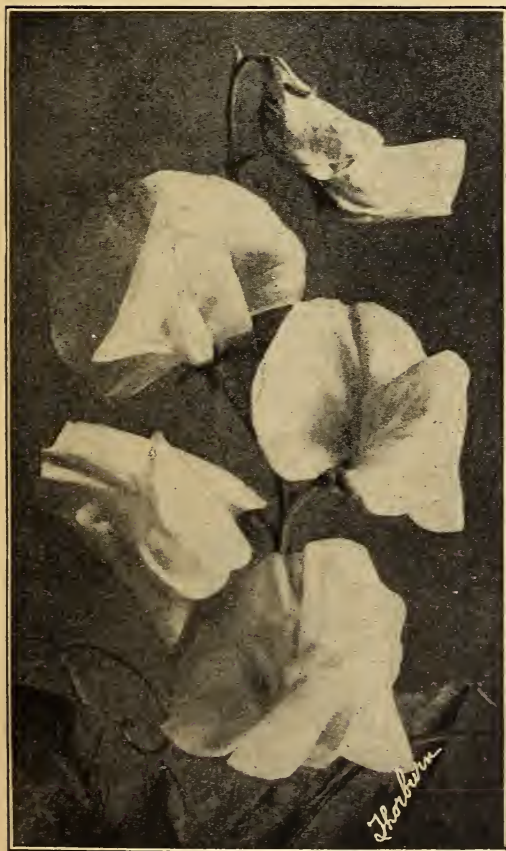
BLUE (Light and Dark Shades)—Continued		
Royal Purple. Rich, warm, rosy purple; immense flowers..	53952	\$0 25 \$0 75
Tennant Spencer. Beautiful purplish mauve, self-colored.	53960	20 60
Wedgewood. Lovely, light wedge-wood blue.....	53962	25 75

Crimson and Maroon

Dobbie's Sunproof. Crimson.	54015	25 75
King Edward Spencer. A lovely self-colored, carmine-scarlet.	54020	20 60
King Manoel. Largest deep maroon.....	54025	25 75
Nubian. Very dark crimson maroon; large and waved.	54030	20 60
Othello Spencer. An elegant rich, deep maroon.....	54040	20 60

Pink (Light Shades)

Beatrice Spencer. Blush pink tinted with deeper pink..	54090	25 75
Countess Spencer. Beautiful soft rose pink. One of the best.	54110	20 60



Sweet Peas, Spencer Type

PINK (Light Shades)—Continued		
Charles Foster. Opal pink pastel.....	54120	25 75
Elsie Herbert. Creamy white and pink; large flower.....	54130	20 60
Florence Morse. Blush pink with deeper pink margin.....	54150	25 75
Mrs. C. W. Breadmore. Cream, pink edged; very large flower.	54172	25 75

Pink (Rose-Pink)

Apple Blossom Spencer. Rose standards, blush-rose wings; large flowers.....	54220	20 60
Blanche Ferry Spencer. Carmine rose with white wings.	54225	20 60
Constance Oliver. Buff pink, large flower.....	54228	25 75
Elfrida Pearson. Extra large flowers; pink tinted with salmon.....	54230	25 75
Enchantress. Pale, silvery rose pink, tinged deeper at margin.	54232	25 75
George Herbert. Rich salmon-rose color; splendid.....	54240	20 60
John Ingman. Rose carmine; large fluted flowers.....	54260	20 60
Lovely Spencer. Deep pink throat, shading to blush..	54270	20 60
Mrs. Cuthbertson. Rose-pink, flushed white.....	54275	25 75
Rosabelle. Fine, deep rose, with white blotch at base.....	54290	25 75

Salmon and Orange

Barbara. Fine salmon.....	54310	25 75
Decorator. Rosy terra cotta, bright orange at base of wings.....	54322	25 75
Earl Spencer. Rich, brilliant salmon rose.....	54324	25 75
Fiery Cross. Red orange cerise; very brilliant.....	54326	30 1 00
Helen Lewis. A very fine orange pink; most showy.....	54330	20 60
Illuminator. Rich, bright salmon color. One of the finest..	54340	25 75
May Unwin. Best orange-scarlet.	54345	25 75
Mrs. Hardcastle Sykes. Beautiful light salmon pink; large flower.....	54350	20 60
Robert Sydenham. Bright orange-salmon.....	54355	30 1 00
Stirling Stent. Large flowers; deep salmon, suffused with orange.....	54360	25 75

Scarlet

Queen Alexandra. Scarlet, self-colored.....	54365	25 75
Vermilion Brilliant. Bright scarlet.....	54375	25 75

SWEET PEAS, SPENCER VARIETIES—Continued

White

	Per oz.	¼ lb.
America Spencer. White, striped with crimson red.....	54390	\$0 25 \$0 75
Etta Dyke. A white Spencer; of fine form and substance.	54400	20 60
King White. Pure white; flowers of enormous size and fine form.	54404	25 75
Rainbow Spencer. Ivory white, flaked rose.....	54410	20 50

WHITE—Continued

Per oz. ¼ lb

White Spencer. Pure white; large, beautifully waved flower.....	54420	\$0 25 \$0 75
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Yellow Shades

Clara Curtis. A beautiful cream yellow; large, waved flower.	54470	25 75
Dobbie's Cream. Fine; large; primrose.....	54480	25 75
Primrose Spencer. Light primrose yellow; finest formed flowers.....	54490	25 75

NEW GIANT, EARLY-FLOWERING, LONG-SEASON
SPENCER SWEET PEAS

This new race of Sweet Peas is expected eventually to take the place of all other Early and Late varieties, as they bloom from four to six weeks earlier than the late-blooming Spencers sown at the same time and continue blooming for four months. They are vigorous growers with immense waved flowers borne on long, strong stems in threes and fours, adaptable to our warm Summers and free flowering. We strongly recommend a trial of these new creations.

Early Melody. This is a deeper shade of pink than Early Song Bird, on white ground. It might be described as rose pink on white ground, very pleasing; mostly four well waved blossoms to each stem; free flowering.....	54544	25	Pkt. of 50 Seeds
Early Morning Star. Deep orange scarlet or flame color in standard, with rich orange-pink wings, keeping its color well and does not burn badly. Flowers are large and waved, borne in threes and fours abundantly; when cut and under artificial light its coloring is exquisite.	54555	25	
Early Snowflake. The blossoms are very large and of the best waved form, resembling the noted White Spencer; a free bloomer, with good, long stems.....	54566	25	
Early Song Bird. Soft blush-pink shade; large, fine flowers, borne on long stems in threes and fours. When in full growth it appears as though every stem has four blossoms, and of great quality.....	54576	25	Pkt. of 50 Seeds
Early Spring Maid. The color is light pink on a cream ground. A most lovely variety, with very large, waved flowers; for an early cream pink Early Spring Maid is unexcelled.....	54587	25	
Early Heather Bell. Beautiful shade of rich mauve, flowers borne on long stems and are of true Spencer form.....	54588	25	
Yarrowa. Rose color on first opening, changing as it develops to a charming combination of light pink standards and blush wings of vigorous habit, the flowers are produced on long stiff stems.....	54590	25	oz. \$1.25

EARLY AND WINTER-FLOWERING SWEET PEAS
SPENCER VARIETIES

These varieties, if sown early in Fall indoors, will bloom by Christmas and continue all Winter. They may also be sown outdoors in the same way as other sorts for Summer flowering.

	Pkt. of 50 Seeds
Blanche Ferry Spencer. Pink and white.....	54640 25
Lavender Pink Spencer	54710 25
Mrs. Sim Spencer. Apricot Pink.....	54730 25
Red Orchid Spencer	54735 25
White Spencer. Best pure white.....	54750 25
Choice Mixed Spencer	54760 25

GRANDIFLORA VARIETIES

All Ten Cents per Packet

	Per oz.	¼ lb.
Canary Primrose. Beautiful primrose (Christmas).....	54650	\$0 15 \$0 50
Christmas Pink	54660	15 50
Christmas White	54670	15 40
Christmas Lavender (Mrs. Alex. Wallace).....	54680	15 40
Earliest of All. Pink and white resembling Blanche Ferry (Christmas).....	54690	15 50
Le Marquis. Navy blue (Christmas).....	54720	15 50
Meteor. Bright red.....	54725	15 50
Mixed Christmas	54770	15 50

SWEET PEAS IN MIXTURE

	Pkt.	oz.	¼ lb.	½ lb.	1 lb.
THORBURN'S SPECIAL MIXED. Comprising the finest Eckford and newest and best large-flowering (Grandiflora) varieties.....	54800	\$0 05	\$0 10	\$0 35	\$0 65 \$1 25
Spencer Varieties, Mixed. A very fine assortment of all the best varieties.....	54820	10	20	75	1 40 2 50
Eckford, Mixed. The finest Eckford varieties only.....	54860	05	10	35	65 1 25
Perennial Peas. See <i>Lathyrus</i> .					

Selected List of Flower Seeds

We have unquestionably the largest assortment of Flower Seeds in America, and our strains are far superior to those commonly sold, often under fancy names and at fictitious prices. We avoid extravagant descriptions, meant only to effect sales.

There are many minute plants from the finer seeds killed by drenching with water while very young. In the first stage of their existence plants require moisture in a minute quantity, often repeated, and not in such large quantities as to saturate the soil in which they are growing.

FLOWER SEEDS DELIVERED FREE BY MAIL ON RECEIPT OF THE STATED PRICE

Not less than $\frac{1}{4}$ oz. or 1 oz. sold at the prices quoted per $\frac{1}{4}$ oz. or 1 oz. respectively

PRICE PER OUNCE OR POUND FOR THOSE NOT QUOTED, ON APPLICATION

Explanation of Signs Employed in this List

The asterisk (*) designates *ornamental-leaved* plants. This mark (§) prefixed indicates the *climbers*.

A represents **Annual**—lasting but one year. **S** represents **Shrubs**—plants of bushy habit.

B “ **Biennial**—lasting two years. **g** “ **greenhouse** plants.

P “ **Perennial**—lasting three or more years. **Bu** “ **bulbous** plants.

E “ **Evergreen**—retains foliage the entire year.

As a large number of Biennials and Perennials, if sown early, flower the first season from seed, this distinguishing mark (§) is affixed to such.

The hardiness is denoted by the following abbreviations, but it should be understood that this is intended to apply to the climate of the Middle Atlantic States. Farther north or south, these designations apply only in a comparative way.

h represents **hardy**—plants for open border. **hh** represents **half-hardy**—plants that require to be forwarded in pots or frames. **t** represents **tender**—requiring protection.

Customers will find it more convenient to order by number. If ordered from any catalogue other than this (1919) kindly state from which year's catalogue the numbers are taken. This will facilitate the filling of orders and will insure prompt shipment.

☛ Many of our Flower Seeds are grown in Europe. Owing to troubles abroad some sorts may not be received until later in the season than usual. At the time of going to press we expect to receive all the varieties we quote, but may be disappointed.

☛ If permission is given us to substitute, we shall use our best judgment in sending equally good sorts for those originally ordered, or a memorandum will be kept of any items not sent and the seeds will be forwarded as soon as they arrive.

ABRONIA umbellata grandiflora (Sand Pkt.
Verbena). Handsome, trailing plants,
these hardy annuals with lilac-rose-colored
flowers, are especially adapted for vases and
rock gardens, doing best in light, sandy
soil. Sow in the open ground in May. **55020** 10

‡**ABRUS precatorius** (Prayer Bean). This
attractive, climbing, greenhouse perennial
needs a strong heat for best results.
Blossoms light purple. **55030** 5

ABUTILON, Mixed Hybrids (Chinese Bell-
flower, or Flowering Maple). Greenhouse
shrub of easy culture; continuous bloom-
ing, bell-shaped flowers; very decorative;
desirable for house or garden. Grows 3 to 4
ft. in height. **55050** 25

ACACIA (Tassel Tree). Beautiful greenhouse
shrubs, elegant foliage, graceful branches
and fine racemes of richly scented,
yellow flowers. Soak the seeds in hot water
before sowing, then plant in sandy peat in
a temperature of 55 to 60 degrees. Pkt.

Baileyana. 6 to 10 ft. **55090** 10

cultriformis. 6 ft. **55110** 10

dealbata. 4 ft. **55130** 10

decurrens. 6 ft. **55150** 10

Melanoxylon. 8 ft. **55210** 10

floribunda. 6 ft. **55230** 10

Fine Mixed. **55290** 5

ACANTHUS (Bear's Breech). Hardy perennial
plants, flourishing in almost any soil or situa-
tion. Much prized for decorative purposes. Pkt.

mollis. White; 3 ft. **55320** 10

ACHILLEA Ptarmica, Double, "The Pearl." Free-blooming, hardy perennial. The Pure white flowers are borne in clusters on long stems. Fine for florists for cut flowers; succeeds well in any common garden soil; blooms all Summer and Fall; 1½ ft. in height.....**55340** 25

ACONITUM. Hardy perennial plant, with showy panicles of helmet-shaped flowers; does well in shady places or under trees; 4 ft.

Napellus (Monk's Hood). Blue.....**55380** 10

ACROCLINUM. Showy, halfhardy annuals for the Summer garden, with Everlasting flowers, which are much used for Winter decorations. Flower heads, to be preserved should be gathered when young; 1 ft.

roseum.	Rose.....	55430	5
"	album. White.....	55450	5
"	Mixed	55470	5
"	Double Rose	55490	5
"	Double White	55510	5
"	Double Mixed	55530	5

†**ADLUMIA cirrhosa** (Mountain Fringe; Allegheny Vine). An interesting hardy perennial climbing vine, with beautiful dark rose flowers and delicate foliage; 15 ft.....**55580** 10

ADONIS. Both the annual and perennial varieties are, with their bright flowers, great favorites in the flower-garden. All succeed well in any common soil.

autumnalis (Flos Adonis) (hA). Crimson, fall blooming; 1 ft.....**55600** 10

æstivalis (hA). Scarlet; 1½ ft.....**55620** 5

vernalis (Ox-eye) (hP). Bright yellow, spring blooming; 1 ft.....**55640** 5

AGAPANTHUS umbellatus (African Lily). Showy greenhouse plants, producing large clusters of bright blue flowers. Nearly hardy, and will thrive anywhere, in pots or tubs on the lawn, piazza, or in the greenhouse. In bloom during Summer and Autumn; 3 ft.....**55660** 10

AGATHÆA cœlestis (Blue Daisy). A tender perennial, with beautiful blue flowers; fine pot plant for Winter blooming in conservatory; 1 ft.....**55680** 25

AGERATUM. For strengthening the garden's color-forces in blue, no annual is so good as the Ageratum. Though ordinarily used in bedding and borders, in contrast with such plants as geraniums, perillas, etc., the rose, white and blue sorts are exceedingly attractive when mingled with alyssum, candytuft, etc. They grow well almost anywhere and bloom the whole season, the dwarf blue sorts make fine borders. Sow under glass early in the season or, later, outdoors in a mellow seed-bed. Seeds sown in August will produce good plants for winter flowering.

Lasseauxi. Clusters of handsome rose-colored flowers; 1 ft.....**55720** 10



Ageratum Lasseauxi

AGERATUM—Continued	Pkt.
mexicanum (hA). Blue. Parent of the annuals below; 1½ ft.....	55730 5
album. White; 1½ ft.....	55735 5
Blue Perfection. Fine dwarf variety, with large flowers; 9 in.; splendid.....	55740 10
Imperial Dwarf Blue. Excellent for edgings; 9 in.....	55770 10
Imperial Dwarf White. Excellent for edgings; 9 in.....	55780 10
Little Dorrit. Azure blue. Plants 6 in. high, 1 ft. wide.....	55790 10
Little Blue Star. Bright blue flowers, fine for carpet bedding; 5 in.....	55810 25
Swanley Blue. A fine, large-flowered sort; 1 ft.....	55820 10
Fine Mixed	55840 5

AGROSTEMMA. All of easiest cultivation, blooming during Summer and Autumn. "The Rose of Heaven" is very free flowering and fine for cut-flowers. The "Rose Champion" is excellent for naturalizing in dry situations.

Coeli-rosa (Rose of Heaven) (hA). Rose; 1½ ft.....	55860 5
† coronaria (Rose Champion) (hP). Rose; 2 ft.....	55880 5
† " Dark Blood Red (hP). 2 ft.	55890 10

AGROSTEMMA—Continued

Pkt.

†**coronaria White** (hP). 2 ft. **55900** 5† " **Mixed** (hP). 2 ft. **55910** 5†**Flos-Jovis** (Flower of Jove) (hP). Rose;
1 ft. **55920** 5**ALONSOA** (Mask Flower). Bright, little, free-flowering annuals of fine habit; require some protection in cold weather. Bloom continuously all through the season; 1½ to 2 ft.

Pkt.

linifolia. Scarlet. **55970** 5**Warscewiczii**. Scarlet. **55980** 5**ALSTROEMERIA** (Peruvian Lily). Lily-like, hardy perennial. Blooms all Summer; 3 ft.

Pkt.

pulehella. Brilliant yellow, with red streaks. **56020** 10**ALTHÆA rosea**. See *Hollyhock*.**ALYSSUM**. Most popular, free-blooming annuals; suitable for borders, baskets, pots, rockwork, and for cutting. In the garden sow thickly so as to form masses, early in Spring or even the previous Autumn. For Winter bloom sow late in August, and thin the seedlings to about a dozen for a good-sized basket. Cut back after the first flowers fade and others will come.

Pkt.

maritimum (Sweet Alyssum) (hA). Fragrant white flowers, in clusters; all Summer; 1 ft. Oz. 50c. **56050** 5**compactum lilacinum** (Lilac Queen) **56055** 10**compactum, Little Gem**. Grows erect; 6 in. ¼ oz. 20c., oz. 60c. **56060** 10**procumbens, White Carpet**. Of trailing habit, forming a dense mass. ¼ oz. 20c., oz. 60c. **56070** 10**Thorburn's Boquet**. Very dwarf and compact; for pots and borders; 3 in. ¼ oz. 30c. **56080** 15**saxatile compactum** (Gold Dust) (hP). Single plants cover a square foot in a year and produce hundreds of yellow flower heads. Grayish foliage; 1 ft. **56090** 5***AMARANTUS**. Strong-Growing, highly ornamental tender annuals. The tricolor varieties are very valuable for bedding, having elegant, ornamental foliage, variegated crimson, yellow and green; also well adapted for growing in pots. Of easy culture, doing best in rich loam soil. For best results sow in hotbed in April and plant out the end of May. *Please note that seed saved from the finest sorts frequently produce inferior plants.*

Pkt.

bicolor ruber**. Red; 2 ft. **56150** 5cruentus** (Prince's Feather). Dark red; 3 ft. **56160** 5***caudatus** (Love-Lies-Bleeding). Dark red; 3 ft. oz. 30c. **56170** 5**coleifolius superbus**. Dark red; 3 ft. **56180** 5***melancholicus ruber**. Red; 2½ ft. **56200** 5***salicifolius** (Fountain Plant). Purple; 2½ ft. **56210** 10***tricolor** (Joseph's Coat). Variegated; 2½ ft. oz. 50c. **56220** 5

Amarantus

***AMARANTUS—Continued**

Pkt.

***Fine mixed** oz. 30c. **56250** 5**AMETHYST**. See *Browallia*.**AMMOBIUM alatum grandiflorum**. White.Pretty half-hardy perennial Everlastings. Of easiest culture; bloom all Summer; 2 ft. **56280** 5**ANAGALLIS grandiflora, Mixed** (Pimpernelle). Half-hardy annuals of easy culture. Fine for borders or rockwork. Continuously in bloom; 6 in. **56300** 5**ANCHUSA**. Both the annual and perennial varieties of this attractive plant succeed well in the garden border. Fine for cut-flowers and bouquets.**capensis** (Cape Forget-Me-Not) (hhA). Azure blue; 1½ ft. **56330** 10**italica, Dropmore variety** (hP). Blue; 3 ft. **56340** 10**ANEMONE** (Windflower). Free-flowering, hardy perennials, producing large cup-shaped flowers. Invaluable for cutting; require rich, deep soil; 1 to 2 ft.**coronaria** (St. Brigid Poppy-flowered) **Mixed** **56360** 10**Caen, Mixed** **56370** 10**japonica alba**. White. **56390** 25**sylvestris**. White. **56395** 15

ANTHEMIS. A very pretty plant, producing all Summer Daisy-like, golden yellow flowers; fine for cutting.

Pkt.

Kelwayi tinctoria (hP). Fine, large flowers on good stems; 2 ft.....**56460** 10

ANTIGONON leptopus. Greenhouse perennial climber with pink flowers.....**56470** 5

ANTIRRHINUM. See *Snapdragon*.

AQUILEGIA (Columbine). Few hardy perennials are so easily grown from seed, and will give such unalloyed satisfaction. A most desirable border plant. It forms large clumps, blooms early, long and abundantly, is useful for cutting and elegant in habit. Sow seed in the open ground in Spring, preferably where the plants are to grow, and thin to about a foot apart. Sow in the Fall for flowering the following season. They thrive well under ordinary garden culture, but such rare sorts as *A. cærulea* and *A. chrysantha* do best in partially shaded, well-drained nooks.

Pkt.

California hybrida. Orange-red and yellow; splendid; 2 ft.....**56500** 25

canadensis. Scarlet and yellow; for shade; 1½ ft.....**56510** 10

chrysantha. Golden yellow; flowers large, long spurred; 3 ft.....**56520** 25

cærulea (Rocky Mountain Blue Columbine). One of the most beautiful of our native flowers. Sepals blue, petals white; 3 ft.....**56530** 15

glandulosa vera. One of the handsomest hardy perennials; stems 2 ft. high, with sometimes 50 to 80 blossoms 3 in. in diameter, of the deepest blue, with white corolla; a splendid flower.....**56560** 50

Long-spurred Hybrids, Mrs. Scott Elliot's Strain. Magnificent hybrids in the greatest variety of colors and shades; one of the finest strains; 2 ft.....**56580** 25

Skinneri (Mexican Columbine). Very handsome and distinct, spurs and sepals long. Crimson and green; 3 ft.....**56590** 25

vulgaris, Double Mixed. Best colors.**56620** 5

" **Single Mixed.** Many good sorts.
56630 5

ARABIS. An early-flowering, hardy perennial especially suited for edgings becoming a sheet of white bloom in early and rock-work, growing about 6 in. in height, Spring, adapting itself to almost any situation, and of easiest culture.

Pkt.

alpina (Rock Cress). White; 9 in....**56660** 10

ARCTOTIS grandis. White and lilac; 2 ft. The large, Daisy-like blooms of this fine hardy annual are excellent for cutting **56680** 10



Aquilegia, Long Spurred Hybrids

ARGEMONE. Easily grown, showy, hardy annuals, with Poppy-like flowers; blooming through the Summer and Autumn; 2 to 3 ft.

Pkt.

grandiflora. White.....**56720** 5

" **lutea.** Yellow.....**56730** 5

†ARISTOLOCHIA elegans (gP). Purple-and-white. Beautiful, strong-growing climbers for both greenhouse and open ground; grow finely all Summer; 20 ft.**56750** 25

Sipho (hP). The "Dutchman's Pipe" Vine; 30 ft.....**56760** 25

ASCLEPIAS. Showy plants, including both greenhouse and hardy perennials, growing 2 to 3 ft. in height and blooming throughout the Summer.

Pkt.

Curassavica (Swallow-wort) (gP). Orange; free bloomer.....**56810** 10

tuberosa (hP). Orange.....**56840** 10

ASPARAGUS. Beautiful, fern-like foliage; fine for bouquets; an excellent house plant; white flowers; 4 to 6 ft.

Pkt.

plumosus manus (gP). The dwarf variety so largely used by florists.....**56860** 10

ASPARAGUS—Continued

Sprengeri (gP). Fine for basket work and for use with cut-flowers.....56890 10 Pkt.

ASPERULA. Sweet-scented, pretty plants for borders or rockwork; succeed finely in shady places or under trees; continuously in bloom; 1 ft. Pkt.

azurea setosa (hhA). Light blue....56920 5

odorata (Sweet Woodruff; Waldmeister) (hP). White.....56930 10

Asters. See pages 71 and 72.

AUBRETIA. Hardy perennial trailers for beds, rockwork or herbaceous borders; resemble Alyssum in character. Pkt.

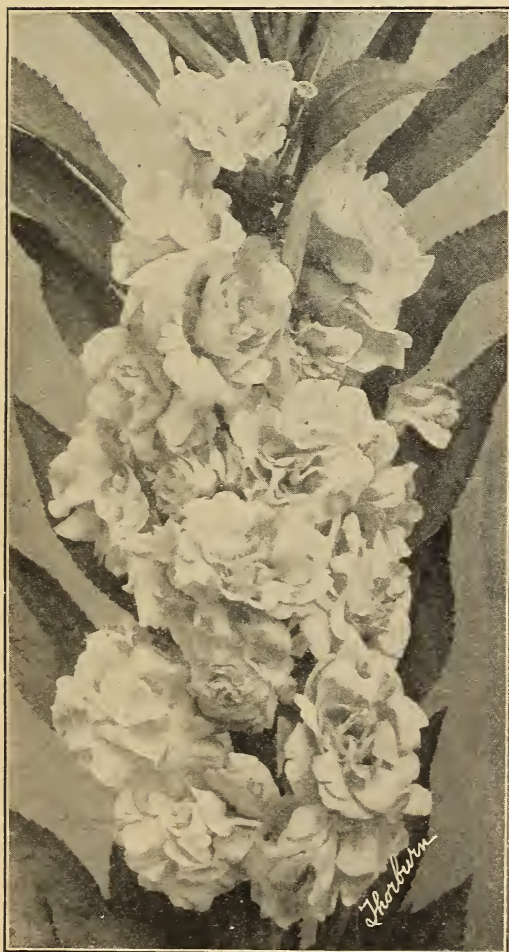
deltoidea. Lilac, very pretty.....56960 25

Leichtlini. Rosy carmine, fine.....56990 25

AURICULA (*Primula auricula*) (hP). **Finest Mixed**. Beautiful shades of color. These early Spring-blooming garden Primroses are great favorites; 6 in.....57020 25 Pkt.

BACHELOR'S BUTTON. See *Centaurea* and *Gomphrena*.

BALLOON VINE (*Cardiospermum*). A pretty and fast-growing, half-hardy annual climber, with white blossoms; 10 ftoz. 50c..57080 5 Pkt.



Double Balsam

BALSAM. (*Lady's-Slipper*). These favorite half-hardy annuals are of the easiest culture, but love hot sun, rich soil and plenty of water. The young plants are quick, sure growers, and, from seed sown in the open ground in May soon form handsome bushes thickly massed with large, Rose-like flowers. Transplanting two or three times has a tendency to dwarf the plants into better shape and to make the flowers more double. Balsams are not often given room for perfect development; they will easily cover 12 to 18 in. of space each way. For the finest flowers choice seed is more than usually essential. We offer only the finest *double* sorts; 1½ ft. Pkt.

Double Bright Scarlet.....57100 10

" **Rose**.....57150 10

" **Yellow**.....57155 10

" **White**.....57160 10

Camellia-flowered, White. Flowers of extra size, double and full centered, with reflexed petals. The plant grows rapidly to a good height and is extremely floriferous.....57170 10

Camellia-flowered. Lilac.....57172 10

" " **Light Pink**.....57174 10

" " **Rose**.....57176 10

" " **Scarlet**.....57178 10

" " **Mixed. Double. Best colors**.....57190 10

" " **Mixed. Single**.....57195 10

Finest Double, Mixed. A splendid assortment.....¼ oz. 30c..57200 10

BALSAM APPLE AND PEAR. See *Momordica*.

BAPTISIA australis (False Indigo). Light blue. Very beautiful, strong-growing and ornamental, hardy, perennial border plant for Summer blooming; 3 ft.....57280 5

BARTONIA aurea. Golden yellow. Beautiful hardy annuals that bloom all through the season; very fragrant in the evening; 3 ft.....57300 5

BEGONIA. (gP). Begonias are invaluable for growing in beds and borders; also for pot culture, being perfect in habit, with very handsome foliage. Average height about 1 ft. The tuberous-rooted varieties produce gorgeous effects in the garden and are one of our best Summer-blooming plants. The seeds of all varieties should be started early. Pkt.

Single, Tuberous-Rooted, Mixed...57420 25

Double Tuberous-Rooted, Mixed...57430 50

Fringed Single Tuberous-Rooted, Mixed...57440 25

gracilis luminosa. Dark scarlet, reddish brown foliage; Winter flowering; fine for pots.....57460 25

***Rex**. Ornamental-leaved varieties in mixture.....57480 25

semperflorens rosea. Rose-colored flowers; fine for edging.....57500 25

" **alba**. White flowers borne in profusion.....57510 25

" **Vernon**. Red; for borders.....57540 25

" **Mixed**.....57570 25

BEGONIA—Continued

BELLIS perennis. See *Daisy*. Pkt.

BENINCASA cerifera (tA). A black, wax-like gourd with yellow flowers; 6 ft. **57610** 10

BIDENS atrosanguinea (hA). Showy, like the Calliopsis; easily grown; flowers dark red; 2 ft. **57630** 10

BLUE BOTTLE. See *Centaurea cyanus*.

***BOCCONIA japonica.** A very ornamental, hardy perennial; fine in large beds; flowers white; 6 ft. **57650** 10

BRACHYCOME. The well-known “Swan-River Daisy” is a beautiful, little, half-hardy annual; blooms all summer; fine for edgings and borders. Should be started in hotbed; 1 ft.

	Pkt.
iberidifolia. Blue.....	57710 10
“ alba. White.....	57720 10
“ rosea. Rose.....	57730 10
“ Mixed	57740 10

BROWALLIA (Amethyst). Half-hardy, profuse-blooming annual; highly prized for Summer bedding or as greenhouse plants. Fine for cutting; 2 ft.

	Pkt.
elata. Blue.....	57780 10
“ alba. White.....	57790 10
“ Mixed	57800 10

CACALIA (Tassel Flower). Very pretty and most easily grown hardy annual, with tassel-shaped flowers; 1½ ft.

	Pkt.
coccinea. Scarlet.....	57880 5
“ lutea. Orange.....	57890 5

CACTUS (hhP). Mixed varieties. Seeds of these interesting plants should be started in the greenhouse in moist sand. **57900** 25

‡**CALAMPELIS scabra** (‡hP). Fine climber for trellises; flowers orange scarlet; 10 ft. **57920** 10

CALANDRINIA. Brightly colored, little hardy annuals, fine for edgings; continuously in bloom, and do well in sunny situations; 6 in.

	Pkt.
speciosa. Purple.....	57950 5
umbellata. Violet.....	57960 10

CALCEOLARIA. The seeds are very small, and should be sown in the greenhouse on the surface of shallow boxes filled with a light, sandy soil, which has been sifted. Sow moderately thick in rows on the surface and cover very lightly with sifted Sphagnum Moss, Cocoanut waste or very light soil. Press the soil firmly on the seed, the watering should be done carefully; an atomizer or brush is best, to retain the moisture the box may be covered with a pane of glass which must be removed as soon as the plants appear. The soil should be light and rich.



Calendula officinalis Nankeen

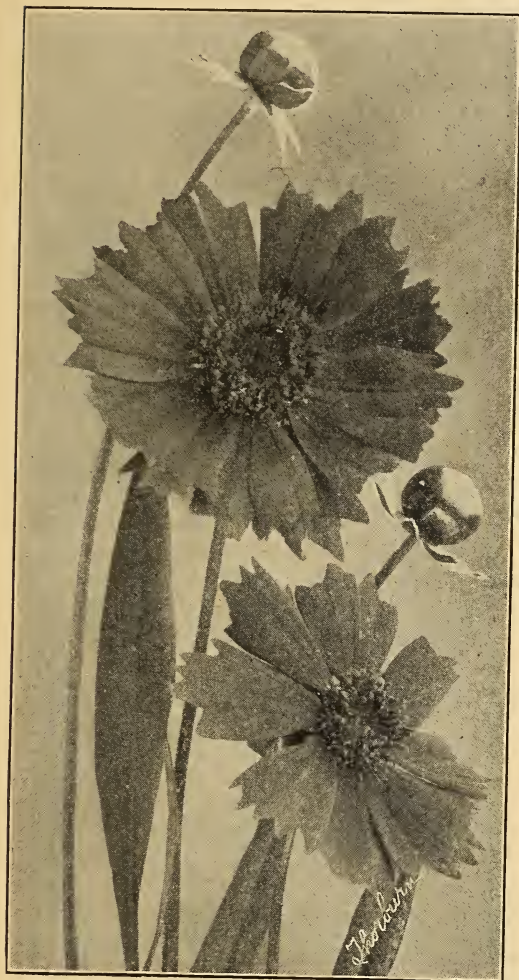
CALCEOLARIA—Continued Pkt.

hybrida. Large flowered; self colored; 2 ft.....	57990 25
“ Large flowered; tigered or spotted; 2 ft.....	58000 25
“ Large flowered; dwarf; tigered; 1 ft.....	58010 25

scabiosæfolia (Californica) (hA). Yellow for bedding; 1 ft. **58100** 10

CALENDULA. Hardy annuals about 1 ft. high. Sow in the open early in Spring and the plants will bloom early in Summer. Calendulas have become very popular of late; the striking orange, red and yellow blooms are very effective and attractive, growing on stout, long stems. They are excellent for cutting, and are produced in great profusion, blooming until late in Autumn. Pkt.

Officinalis fl. pl. grandiflora (Orange King). Double; large flowered deep orange.....	58160 5
“ fl. pl. grandiflora sulphurea. Double; light yellow; large-flowered.....	58170 5
“ Sulphur Crown	58175 5
“ Nankeen. A rich, soft shade of nankeen yellow; large flowers.	58180 5
“ Meteor. Creamy center, edged with orange; fine for cutting. oz. 25c.....	58190 5



Coreopsis Grandiflora

CALENDULA—Continued

Pkt.

- officinalis Prince of Orange.** Glittering orange and yellow. One of the best.....oz. 30c.. **58200** 5
- " **ranunculoides** (Garden Marigold). Orange; double flowers. **58210** 5
- pluvialis** (Cape Marigold). White or ivory. **58220** 5
- Pongei fl. pl.** Handsome, double, white flowers..... **58230** 5
- Mixed, All Sorts**.....oz. 25c.. **58240** 5
- See, also, *Marigold*.

CALLIOPSIS. This hardy annual is another of the garden's great forces in yellow, strengthened with rich red maroons and browns. Sow in the open ground in Spring, and, in thinning or transplanting, give the plants plenty of room to spread. Their tall slender habit makes neat staking and tying necessary. Fine for cutting.

CALLIOPSIS—Continued

Pkt.

- bicolor (Tinctoria).** Yellow brown; 2 ft. **58290** 5
- " **Crimson King**..... **58295** 5
- " **marmorata.** Maroon and gold; 1½ ft..... **58310** 5
- " **nana radiata** (Ray of Gold). Golden yellow flowers; 6 to 8 in..... **58320** 10
- coronata.** Yellow; very fine; 1½ ft... **58340** 5
- Drummondii** (Golden Wave). Golden brown; 1 ft.....oz. 50c.. **58350** 5
- Mixed Annual Sorts**.....oz. 40c.. **58370** 5

COREOPSIS (Perennial Calliopsis). One of our finest hardy perennials; bloom practically all Summer; fine for borders and groups.

Pkt.

- grandiflora.** Large flowers of rich yellow; 2 ft..... **58400** 10
- lanceolata grandiflora.** Large, golden yellow flowers; fine for cutting..... **58410** 10

CAMELLIA JAPONICA. See *Tree Seeds*.

CAMPANULA and **CANTERBURY BELLS.**

Popular and beautiful are Campanulas. Although the Canterbury Bells are biennials they may also be treated as annuals, and will flower the first year from seed, if sown early in the Spring. For effect in the border plant them in clumps of separate colors, and they are beautiful when massed. The perennial varieties, treated as perennials, will flower most profusely by mid-summer. The tall and stately growing kinds will be found of great value for the border, while the dwarf sorts make charming rock and edging plants. All the varieties like a rich, sandy soil with good drainage.

Pkt.

- carpatica** (hP). Deep blue; for rockeries, beds and edgings; 6 in... **58530** 10
- " **alba.** Flowers white; 6 in. **58540** 10
- Medium Single Blue** (Canterbury Bells) (hB). Blooms first year if sown early; 2 ft..... **58560** 5
- " **Single White.** Pretty for contrasts..... **58570** 5
- " **Single Rose**..... **58580** 10
- " **Single Mixed**..... **58600** 5
- " **Double Blue.** Rich, heavy, curious flowers through Summer and Fall..... **58610** 10



Campanula Medium Single

CAMPANULA—Continued

Pkt.

Medium Double White. Waxy appearance.....	58620	10
" Double Rose	58630	15
" Double Mixed	58640	10
calycanthema (Cup-and-Saucer) (hB). Blue; symmetrical; often has 35 to 40 flowers open at same time on a single plant. For pots or borders; 2 ft.....	58650	10
" alba. A white flowered variety of the above	58660	15
" rosea. Rose; a very fine sort.....	58670	15
" Mixed. Shades of blue and white.....	58680	10
" Prize Mixture of all colors, Single and Double and Calycanthemas; an unequaled strain.....	58700	15

CAMPANULA—Continued

Pkt.

persicifolia grandiflora, Blue (hP). Superb large flowers and long, narrow peach-like foliage. For finest effect plant the blue and white varieties together; 2 to 4 ft. June and July.....	58770	25
" grandiflora alba. A white-flowered variety of the above, growing to the same height.	58780	25
" grandiflora, Fine Mixed	58790	25
pyramidalis (Chimney Bellflower) (hhP). Spikes 3 to 4 ft. tall, erect, pyramidal; flowers large and of a beautiful blue; blooms in late Summer and Autumn.....	58800	10
" alba. White	58810	10
" Mixed	58815	10

See also Platycodon, page 115.

‡CANARY - BIRD FLOWER (Tropæolum canariense). Also known as Canary Creeper. Fine, half-hardy annual; yellow flowers; 10 ft	58860	10
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CANDYTUFT (*Iberis*). The Candytufts are among our best hardy annuals for edgings, bedding, massing or rockeries, and for cutting. Several of the varieties are fragrant, and all are profuse in bloom. Sow outdoors in April, and thin well when the plants grow about an inch. Sow again in a month, and late in July for Fall flowers. Give rich soil and water freely.

Pkt.

affinis. Neat and pretty bedder; 6 in..	58870	5
amara. White; 1 ft.....oz. 30c.	58875	5
coronaria (Rocket Candytuft). Of candelabra form; flowers in upright spikes.....oz. 50c.	58880	5
" Empress. White; 1 ft. $\frac{1}{4}$ oz. 20c.....oz. 60c.	58885	5
" Giant Hyacinth - flowered. White flowers borne in large trusses.....	58890	5
" Little Prince. Very large heads of pure white flowers; fine for border and pots; 6 in....	58895	10
odorata. Small, white, fragrant flowers.....	58900	5
umbellata. Purple; 1 ft.....	58905	5
" carminia. Bright carmine; 1 ft.....	58910	10
" carnea. Flesh colored; 1 ft.....	58915	5
" Dunnetti. Dark crimson; 1 ft.....	58920	5
" lilacina. Lilac; 1 ft....	58925	5

CANDYTUFT—Continued

	Pkt.
umbellata Tom Thumb. White... 58932	5
“ Dwarf Hybrids. Mixed colors;	
6 in. 58935	1
“ Mixed. 58938	5
Mixed Annual Sorts. oz. 30c. 58940	5

PERENNIAL CANDYTUFT. Hardy evergreen plants, making a magnificent showing the second year from seed. They bloom very early, cushioning rock ledges, borders, etc., with banks of bloom. Sow outdoors in Spring or Fall in any sunny place.

	Pkt.
sempervirens. White flowers remain fresh nearly a month; 1 ft. 58990	15

***CANNA** (Indian Shot) (hhp). One of our best bedding plants; beautiful, ornamental foliage and large, brilliant flowers. Much employed in subtropical gardening, groups on lawns and mixed flower beds. Soak the seed before planting; 4 ft.

	Pkt.
* Dark Leaved Sorts, Mixed. 59030	10
Indica Fine Mixed. 59035	5
* Finest Mixed. Crozy's hybrids; very fine. 59050	5

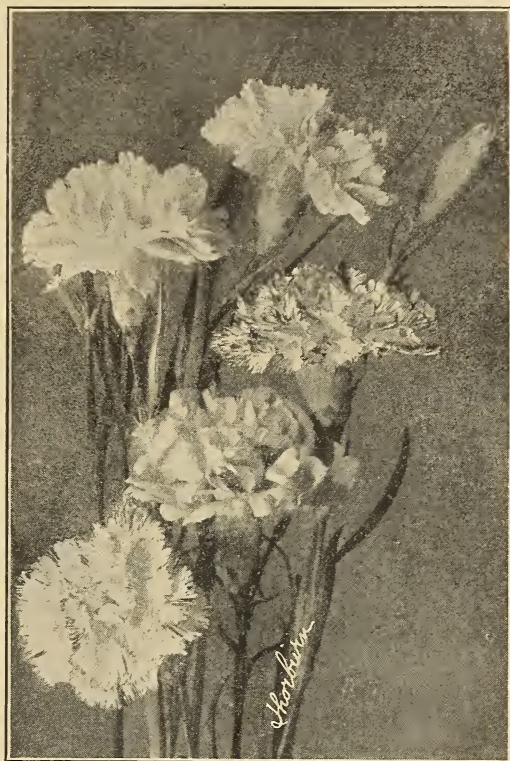
CANTERBURY BELLS. See *Campanula*.

CARNATION (Dianthus Caryophyllus)

The splendid Carnation of the florist is a very interesting plant to grow from seed, and it is not over-exacting. Sown under glass in early Spring or later in the open ground the plants will flower finely the second Summer. For largest, richest flowers we recommend culture in pots of rich soil. With many they are also garden favorites, and grown in this way, flowers of good quality may be enjoyed all Summer if given plenty of water, good soil and a mulch about their roots. With the tall varieties staking and tying is necessary. Young plants are perfectly hardy outdoors, but when two or three years old they are injured by Winter cold, so that sowings should be made every year. *The more expensive sorts produce the finest flowers. The prices we quote, although seemingly high, are most reasonable for strains such as we offer.*

MARGARET CARNATIONS are an extra vigorous race, especially adapted for outdoor culture. They are very neat in habit, and remarkable for their rich profusion of flowers, produced five months from sowing. Grown as annuals from seed every Spring they are most satisfactory.

	Pkt.
Double White. Large, perfect flowers; 1½ ft. 59120	10
Double Yellow. A clear, soft shade; 1½ ft. 59130	25
Double Mixed. 1½ to 2 ft. oz. \$1.50. 59140	10



Carnation, Thorburn's Margaret

CARNATION—Continued

	Pkt.
Giant Margaret. Malmaison Strain. Extra large and perfect, flowering in a rich variety of colors; 80 per cent. of the flowers generally come double. A splendid sort for cutting; 1 ft. 59145	25

PERPETUAL CARNATIONS. This race has large, elegantly formed flowers, continually abloom, upon closely branched symmetrical plants, often called, from their neat habit, Tree Carnations.

	Pkt.
Chabaud Perpetual Double. Mixed—yellow, red, white, etc.; 1½ ft. Blooms in six months. 59160	25

Comtesse de Paris. Very dwarf; yellow; comes true from seed. 59180	50
--	----

Jeanne Dionis. Enormous flowers of the purest white and most perfect form. 59190	75
--	----

Giant Perpetual Fine Mixed. Enormous flowers; perfectly double; splendid colors. 59240	50
--	----

BORDER CARNATIONS, etc. We invite attention to the splendid collection below:

	Pkt.
Red Grenadine, Double. Brilliant scarlet; 2 ft. 59270	25

CARNATIONS, Border, etc.—Continued

- Early Dwarf Vienna. Double Mixed.** Fine for garden culture and for cutting; 1 ft.....**59290** 15
- Fine Double Mixed, Variegated.** Splendid mixture.....**59340** 15
- Double Mixed**.....**59370** 10
- CASSIA artemisioides (Senna) (gP).** A very pretty shrub, with finely cut, silvery foliage and yellow flowers; sweet scented; will stand drought very well; 4 ft... **59450** 15
- CASTOR-OIL PLANT.** See *Ricinus*.
- CATCHFLY.** See *Silene*.

CELOSIA (Cockscomb).

CRISTATA. An annual of easy culture. They are most effective in the border. Transplanted into a rich soil about the time the combs begin to form make the flower heads much larger, and they last from Midsummer till closed by frost.

- Glasgow Prize.** Dark leaves and crimson combs; fine for solid beds and for edgings; 1 ft.....**59520** 10
- Dwarf Bright Red.** A miniature plant, with enormous combs of intense bright red.....**59530** 10
- " **Crimson**.....**59540** 10
- " **Dark Yellow.** Yellow combs. **59550** 10

Pkt.

CELOSIA CRISTATA—Continued

Pkt.

- Dwarf Light Yellow**.....**59560** 10
- " **Mixed.** Extra large combs in all the above colors.....**59570** 10
- Tall Mixed.** Very fine.....**59575** 10

PLUMOSA (Plumed or Ostrich-feather Cockscomb). Beautiful annual foliage plants, blooming in late Summer and Autumn, and producing large, showy plumes, curled and curved, much resembling ostrich feathers. Elegant for beds and borders; 2 to 3 ft.

- Ostrich-Feather, Crimson**.....**59590** 10
- " " **Orange**.....**59600** 10
- " " **Finest Mixed**.....**59605** 10

Pride of Castle Gould. Handsome, compact, feathery plumes. In shades of blood reds, carmines, yellow and orange...**59620** 25

- Thompsonii.** Feathered; red; superb. **59635** 15
- " **magnifica alba**.....**59620** 10
- " " **Aurea**.....**59622** 10
- " " **Carmines**.....**59623** 10
- " " **Coccinea**.....**59624** 10
- " " **Kermesina**.....**59626** 10
- " " **lutea**.....**59628** 10
- " " **purpurea**.....**59630** 10
- " " **rouge feu**.....**59632** 10
- " " **Yellow**.....**59638** 15
- " " **Mixed.** Superb assortment of the plumed varieties.....**59640** 15

Pompon (Chinese Woolflower). Brilliant scarlet; quite distinct.....**59680** 10

Yellow, Golden Yellow.....**59685** 10

CENTAUREA The popular Cornflower (*Centaurea cyanus*), is also known as Blue Bottle, Ragged Sailor, and sometimes as Bachelor's Button. Bright-flowered plants of the hardiest nature and simplest culture, among the most attractive and graceful of all the old-fashioned flowers. The perennial sorts increase rapidly and bloom profusely.

PERENNIAL FLOWERING. A dry, sandy soil of moderate fertility seems to suit them best, keeping up a profusion of bloom all Summer.

- montana, Blue.** Large-flowered perennial Cornflower.....**59725** 10
- " **alba.** White.....**59730** 20

PERENNIAL, SILVER-LEAVED. These are used for borders or edgings, and thrive anywhere. Flowers white, leaves grayish; half hardy; height 1 ft.

- candidissima.** Silvery white leaves...**59740** 10

Pkt.



Celosia Plumosa

CENTAUREA, Perennial—Continued

Pkt.

gymnocarpa. Silvery white, small leaves. **59760** 10

HARDY ANNUALS. Flower finest in full sun and thin soil. Sow in open ground in Spring; 1½ to 2 ft.

Pkt.

americana. Large, lilac-purple flowers; bushy plants; very fine; constant and profuse bloomer. **59780** 10

alba. Pure white. **59785** 15

imperialis (Giant). A hardy annual of great beauty; the fluffy flowers borne on long, stiff stems. Yellow, mauve, lilac, rose and white in color, are very beautiful. They are splendid for cutting, and the cut blooms, if placed in water, are very lasting.

Pkt.

White. Very large flowered, hardy and floriferous. **59790** 10

Purple. Beautiful, velvety purple. **59798** 10

Lilac. Very large flowered; hardy. The same as the white, except in color. **59810** 10

Rose. Charming, glowing rose. **59818** 10

Yellow. Bright yellow flowers; very fine for use as cut-flowers. **59830** 10



Centaurea Imperialis

CENTAUREA, Imperialis, Hardy Annuals—Cont'd. Pkt.

Mixed. Very large flowered; hardy. **59840** 10

odorata, Margaritæ. Pure white; 2½ in. across; lacinated and scented; forms stocky, well budded little bushes; 1½ ft. **59880** 10

moschata atropurpurea (Purple Sweet Sultan). Large flowers on long stems. **59900** 10

" **atropurpurea alba** (White Sweet Sultan). **59910** 10

" **atropurpurea, Mixed.** (Mixed Sweet Sultan). **59930** 10

sauveolens (Yellow Sweet Sultan). Fine. **59950** 10

Cyanus (Cornflower). Blue; delightful, old-fashioned flowers, blooming profusely all Summer; borne on long, stiff stems, and fine for cutting; 1 to 2 ft. ¼ oz. 25c. **59970** 5

" **Emperor William.** Blue; one of the finest of all Cornflowers, and much used for cutting. ¼ oz. 25c. **59980** 5

" **Double Blue.** **59985** 15

" **Rose.** Distinct shade; flowers borne on long stems; good for cutting. **60010** 5

" **Victoria, Dwarf Compact.** For pots and edgings; azure blue; 9 in. **60020** 10

" **Pure White.** Very fine. **60030** 5

" **Mixed.** .oz. 40c. **60040** 5

" **Double Mixed.** ¼ oz., 25c., oz. 80c. **60050** 5

" **Mixed Dwarf Hybrids.** ¼ oz., 25c., oz. 80c. **60060** 10

Collection of 5 varieties Centaurea imperialis. **60065** 40

Collection of 4 varieties Centaurea Moschata. **60068** 30

Collection of 6 varieties Centaurea Cyanus. **60070** 40

CENTRANTHUS. Very pretty, free-flowering annuals, suitable for rockeries, vases and the garden border; 1 ft.

Pkt.

macrosiphon. Red. **60120** 5

" **Mixed.** **60150** 5

CERASTIUM (Snow-in-Summer). Pretty, silver-leaved, trailing, hardy perennials; fine edging plants, also for rockeries; 6 in.

tomentosum. White Pkt. 25
60190

CHELONE. Beautiful, decorative, hardy perennials; worthy of a place in every garden; 2 to 3 ft.

barbata, coccinea, Scarlet. Pkt. 10
60300

" **hybrida Mixed.** Pkt. 10
60310

CHRISTMAS ROSE. See *Helleborus*.

CHRYSANTHEMUM Do not confound these annuals with the Winter-flowering sorts of the florists. They bloom profusely from early Summer until frost, and, when grown in large beds or masses their bright colors make a splendid show. The plants can be brought into bloom early by sowing the seeds in frames or window-boxes, and afterwards transplanting to the garden; or seed may be sown where the plants are to flower, if the seedlings are thinned to 8 to 10 inches apart. Pinching back in early growth makes the plants bushy and shapely. Average height, 1 to 1½ ft.

coronarium, Double sulphureum. Pale yellow Pkt. 5
60370

" **Double Yellow.** Golden yellow; splendid Pkt. 5
60390



Chrysanthemum tricolor

CHRYSANTHEMUM—Continued Pkt.

coronarium, Double White. 5
60410

" **Double Mixed.** Yellow, white, etc...oz. 50c. 5
60430

tricolor. The tricolor sorts have beautiful rings and eyes of various colors, and are distinctively handsome, with long stems.

" **Burridgeanum.** Crimson maroon, with white edge and inner circle; brilliant and showy Pkt. 5
60450

" **Eclipse.** Yellow, with velvety brown band Pkt. 10
60460

" **Golden Feather.** Foliage rich yellow; flowers bright red and white on long stems Pkt. 10
60470

" **Scarlet.** Dark and rich... Pkt. 10
60490

" **Yellow.** Pkt. 5
60500

" **White.** Pkt. 5
60510

" **Single Mixed.** All colors. ¼ oz. 20c., oz. 60c. 5
60520

" **Double Golden** (Dunnetti) Pkt. 10
60530

" **Double White** (Dunnetti) Pkt. 10
60540

" **Double hybridum, Mixed** (Dunnetti) Pkt. 10
60550

" **Double Mixed.** ¼ oz. 40c., oz. 1.25. Pkt. 10
60580

frutescens (Paris Daisy, or Marguerite). (gP). Beautiful for cutting and pot culture; long-stemmed, single, white flowers, with golden centers. A favorite variety with florists Pkt. 10
60610

inodorum, Double. Pretty, white flowers, carried on long, stiff stems; fine for cutting; 1 ft. Pkt. 10
60620

Leucanthemum (Shasta Daisy) (hP). Extra large flowers, with pure white petals and brilliant, golden yellow center; 2 to 2½ ft. Pkt. 10
60630

Leucanthemum Secundum. (June Marguerite). Flowering in succession to The Shasta Daisy Pkt. 15
60635

segetum, Morning Star. Large, yellow flowers; for cutting Pkt. 5
60650

" **Helios, Evening Star.** Fine for cutting; pure golden yellow flowers of gigantic size, borne on long stems Pkt. 5
60660

Collection of 6 Varieties Chrysanthemum tricolor. Pkt. 50
60690

PERENNIAL VARIETIES. This section includes the large-flowered sorts, and the pretty, hardy Pompons that make bright masses of color in our gardens long after heavy frosts have cut down other flowers. We wish to make quite clear the distinction between this class and the Annual Chrysanthemums described above, so that,

PERENNIAL CHRYSANTHEMUM—Continued

as has sometimes happened heretofore, customers may not order seed of the Summer-blooming garden varieties, expecting them to yield the grand show flowers of late Fall, which are obtained from cuttings carefully cultivated. For ordinary culture and room decoration plants pinched back to form a number of branches, and holding from five to ten flowers are satisfactory. Average height of show, kinds, 3 ft.

	Pkt.
indicum, Single. Will produce superb flowers of different types and colors; fine for forcing and cut-flowers.....	60720 25
“ Pompon. The pretty, hardy dwarfs, with bright, clustered flowers, which brighten up the garden late in Autumn; 1½ ft.....	60740 25
japonicum fl. pl. From finest flowers. Double. An extra choice mixture, including many of the finest large-flowering sorts.....	60750 50

CINERARIA One of the most useful and ornamental of greenhouse plants, with flowers of the richest and most brilliant colors and shades, and of the finest texture. It is rather a difficult plant to grow if its requirements are not understood. The mistake generally made is in growing it in a warm house instead of a cool one. The seed should be started in the greenhouse. For Winter blooming sow in April and May in



Cineraria Hybrida

CINERARIA—Continued

shallow boxes, in fine soil; drop the seed in shallow drills, cover, and press the earth rather firmly with a piece of board or the bottom of a pot. Set the box where it will get the morning sun, water moderately and carefully. Average height, 2 ft.

	Pkt.
Large-flowered, Crimson. Very brilliant and showy.....	60860 50
“ “ Flesh Colored, Mixed	60810 50
“ “ Matchless. An excellent new strain containing many new colors..	60815 60
“ “ Stella, Mixed. Twisted and fluted petals; large flowers of very rich and bright colors....	60820 50
“ “ White. Handsome.	60830 25
“ “ Prize Mixed. Magnificent strain	60840 60
“ “ Half Dwarf, Prize Mixed Exquisite; 1 ft....	60850 60
Splendid Mixed. All fine sorts.....	60860 25
“ “ Double	60870 60

stellata (Polyantha). Mixed..... 60880 25

hybrida, extra choice Mixed..... 60890 50

HALF-HARDY PERENNIALS. Require some protection.

	Pkt.
maritima (Dusty Miller). Silvery leaves.	60910 5
maritima candidissima. Beautiful white foliage; the best	60920 10
“ Diamond. Pure white foliage; very fine.	60930 10

CLARKIA One of the prettiest and showiest of hardy annuals that bloom freely and have flowers of such various bright colors that a bed of them in full bloom is a beautiful sight; useful for hanging baskets, vases and as edgings to beds of larger growing plants. Sow outdoors in early Spring and grow in partial shade. The plants keep up a continuous bloom through Midsummer to late Autumn; average height, 1½ ft.

	Pkt.
elegans alba, Double. White	60960 10
“ rosea. Single. Rose.	60970 5
“ rosea. Double. Rose.....	60980 10
“ Salmon Queen. Double. Salmon pink.....	60983 10

CLARKIA—Continued

Pkt.

elegans Scarlet Queen. Double. Orange-scarlet.....	60985	10
“ Single Mixed	60990	5
“ Double Mixed	61000	5
“ Double and Single Mixed ..	61010	5
pulchella alba. White.....	61030	5
“ Red	61050	5
“ White Tom Thumb. Double.	61060	5
“ Single Mixed	61070	5

CLARY (*Salvia Horminum*). Pretty, hardy annuals for beds and borders; 1½ ft.

Purple-Top. Purple.....	61110	5
Red-Top. Red.....	61120	5

‡**CLEMATIS.** (*Virgin's Bower*). Excellent, hardy climbing perennials for trellises, arbors, verandas, etc. Do well in most locations.

Pkt.

crispa. Pale purple; floriferous; 10 ft. .	61160	25
flammula. White, sweet scented.		
25 ft.....	61170	10

paniculata. White, fragrant, very free blooming; 10 to 20 ft.....	61180	10
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Jackmani Hybrids, Mixed. Collection of the best colors; 10 to 15 ft.....	61190	25
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See also *Tree Seeds*, page 67.

CLEOME. Curious, ornamental, hardy annual, on Castor Oil-Plant style. Blooms freely in sandy soil.

pungens (<i>Giant Spider Flower</i>). Pink.		
3 ft.....	61210	10

CLIANTHUS puniceus, scarlet, white spotted.....	61250	25
“ “ alba, white...	61260	25

CLINTONIA (*Downingia pulchella*). Very pretty border annual; flowers freely in purple, white and yellow (tri-color); fine for edgings; 6 in..... **61270** | 25 |

‡**COBAEA.** Tender climbing perennials of rapid growth; 20 ft.

Pkt.

‡ scandens. Purple, bell-shaped flowers.		
oz. 50c..	61330	10
‡ “ alba. White.....	61340	15

COCKSCOMB. See *Celosia*.

***COLEUS** (gP). Splendid bedding plants; with beautifully colored foliage, very useful for decorative purposes; 2 ft.

Pkt.

Fine Hybrids, Mixed	61410	25
Finest Mixed Large-leaved	61420	50

COLLINSIA. Free-flowering annuals. If sown in Autumn, will stand the Winter and flower early in Spring. All the species are brightly colored, and excellent for growing in patches or clumps; easily grown in any garden soil; 1 to 1½ ft.

Pkt.

bicolor. Lilac and white.....	61490	5
“ alba. White.....	61500	5
grandiflora. Blue.....	61520	5
multicolor. White, violet and lilac..	61530	5
verna. Light blue and white.....	61550	5
Mixed	61560	5

COLLOMIA. Hardy annuals suitable for massing; fine for bees.

Pkt.

coccinea. Scarlet and yellow; 1 ft. .	61590	5
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COLUMBINE. See *Aquilegia*.

COMMELYNA. Showy, half-hardy perennials; favorite plants for pots and gardens; 1½ ft.

Pkt.

cœlestis. Blue.....	61630	5
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CONVOLVULUS.

Tall. Beautiful and easily grown annual; rapid in covering screens, trellises, etc.

Pkt.

Aureus superbus (hhA). Golden yellow; 5 to 10 ft.....	61680	10
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major (Tall Morning Glory). Mixed. Finest colors; 10 ft. up.....oz. 25c. .	61690	5
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mauritanicus (hP). Blue; trailing habit; fine for baskets and rockeries.....	61700	10
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For **Japanese Morning Glory**, see *Ipomœa*.

Dwarf. Dwarf Morning Glories are most elegant annuals for growing in clumps or beds; also for edgings and hanging-baskets; very bushy; of easiest culture; bloom all season; 12 in.

Pkt.

tricolor (minor). Blue.....	61730	5
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“ Rose	61750	5
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“ unicaulis. Purple.....	61760	5
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“ White	61770	5
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“ Mixedoz. 25c. .	61780	5
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CORDYLINE. Beautiful greenhouse plants, fine for pots or summer bedding, especially good for vases.

Pkt.

Australis. Dark green foliage; 3 ft. .	61820	25
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indivisia. Narrow green leaves; 4 ft. .	61830	25
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See also *Dracæna*.

COREOPSIS. See *Calliopsis*.

CORNFLOWER. See *Centaurea Cyanus*.



Cosmos, Early Flowering Mixed

COSMOS One of the notable Fall flowers. A strong, tall-growing annual, with bold flowers of exquisite daintiness and airiness, heightened in effect by their foliage setting of feathery green. It is most effective when planted in broad masses, or long background borders against evergreens or fences. We offer only the choice, large-flowering strains. *To make sure of flowering early Cosmos should be started indoors and transplanted into dry, sandy or poor soil, in a sunny situation.*

EARLY FLOWERING. If seed is started early in the house or frame, this fine strain will produce flowers a month earlier than Mammoth Perfection.

	Pkt.
Crimson	61880 10
Pink	61890 10
White	61900 10
Mixed ¼ oz. 25c., oz. 75c.	61910 10

Lady Lenox. Lovely, large, shell-pink flowers of great substance. One of the finest of Cosmos.....**61920** 10

Lady Lenox. White, counterpart of above, except as to color.....**61925** 15

MAMMOTH PERFECTION. Large flowers on long stems, lasting until frost.

Conchita. Crimson.	¼ oz. 20c., oz. 60c. 61930 10
Erlinda. White.	¼ oz. 20c., oz. 60c. 61940 10
Rosita. Pink.	¼ oz. 20c., oz. 60c. 61950 10
Mixed	¼ oz. 20c., oz. 50c. 61960 10

COSMOS—Continued

Klondyke. Orange colored; distinct foliage.	61990 25
Marguerite. Petals deeply and irregularly fringed; in various bright colors. An attractive flower.....	62010 10
Striped. Charming and distinct; large, white centers, and petals deeply striped white.....	62030 10
COWSLIP (<i>Primula officinalis hybrida</i>) (hP). Favorite Spring flower; fragrant; mixed colors; 6 in.....	62080 10
Yellow	62085 10

†**CUCUMIS.** Very luxuriant, half-hardy, climbing annuals of extremely rapid growth; bearing curious fruits; flowers yellow; 10 to 15 ft.

flexuosus (Snake Cucumber).....	62140 5
grossulariaeformis (Gooseberry Gourd).	62150 10

CUCURBITA. See *Gourds*.

†**CUPHEA.** Pretty half-hardy perennials; fine border and pot-plants; 1 to 1½ ft.

Miniata. Rich scarlet.....	62200 10
platycentra (Cigar Plant). Long-shaped, scarlet flowers all Summer.....	62210 10
Rœzlii. Red.....	62230 25

CYCLAMEN These bulbous greenhouse plants are all very beautiful and are unapproached among Winter-flowering plants for duration of bloom, variety of shades, and wealth of coloring. They are among the best plants recommended for house culture, as they thrive well and bloom profusely in the average temperature of the living room. Sow the seed in small boxes or seed pans in a compost of well rotted manure, leaf mold and sand, in the early Winter months. Cover lightly with moss, which should be kept moist and should be removed after the seed germinates. Prick out into small pots when the young plants have two leaves. If grown steadily without any check, they will flower in from ten to twelve months. Average height 9 in.

	Pkt.
Persicum giganteum album, Mont Blanc. White.....	62300 25
" " albo-rubrum. white with red eye. 100 seeds, \$1.....	62310 25
" " atropurpureum. Dark red....	62320 25
" " Brilliant Red (wine color).....	62322 50
" " Christmas Cheer (blood red).....	62324 50
" " Daybreak (light pink).....	62325 50
" " Glory of Wandsbek (salmon dark).....	62326 50
" " Lavender (dark and light shades).....	62328 50
" " Princess May. Purest white, tipped crimson; very handsome....	62340 25
" " Rose of Marienthal (pink).....	62345 50

CYCLAMEN—Continued

	Pkt.
Persicum giganteum roseum. Rose.	
“ “ Rosy Morn. Rich rose, shading to purplish tinge.	25
“ “ Victoria (white, pink edge fringed)	25
“ “ White, pure.	50
“ “ White, pink eye.	50
“ “ Mixed. Finest sorts.	50
“ “ Covent Garden strain. Mixed.	25
“ Papilo, Mixed (Butterfly Cyclamen)	25
“ Mixed.	10

CYPERUS alternifolius (Umbrella Plant).

A perennial grass-like plant of fine habit; grows well in water and damp places; 2 ft. 15

CYPRESS VINE. See *Ipomœa Quamoclit*.

†**DAHLIA.** This favorite, half-hardy perennial is most easily grown from seed sown early in the house or greenhouse. Will bloom freely outdoors until frost the first season; 3 to 6 ft.

	Pkt.
Double Mixed	10
Single Mixed	10
Single Cactus, Mixed	10
Double Cactus, Mixed	25
variabilis, Giant Hybrids, Double Mixed.	10



Single Dahlias

DAISY (*Bellis perennis*, etc.) (hP). May be sown in February or March in shallow boxes of light, rich soil, covering the seeds to about three times their own thickness, and pressing soil firmly over them. Keep in a warm window, hotbed or greenhouse. When well out of the seed leaf transplant to new boxes, and set out in the open ground when danger from frost is past. Or, sow in beds outside in August or September; protect with straw or litter over Winter, and transplant to their permanent position in the Spring. They make delightful borders to beds of taller-growing annuals and can be used very effectively in beds of Spring-blooming bulbs; 4 in.

	Pkt.
Double Red	10
“ Delicata rosea	10
“ Rose (Longfellow).....	10
“ White (Snowball).....	10
“ Mixed. Very fine.....	10
“ maxima alba. Extra large. White.	15
“ maxima rosea. Extra large.	15
“ maxima, Mixed. Extra large.	15
“ monstrosa alba. Snowy white flowers.....	25
“ monstrosa rosea. Deep rose.	25
“ monstrosa Mixed	25

SHASTA DAISY. See *Chrysanthemum. Leucanthemum*.

DAISY (Paris Daisy). See *Chrysanthemum frutescens*.

DAISY, Swan River. See *Brachycome*.

DATURA. Showy, half-hardy annuals of rapid growth, with large, trumpet-shaped, fragrant flowers; 3 ft.

	Pkt.
cornucopia (Horn of Plenty). Violet; immense flowers.....	5
fastuosa, Double White	5
“ Double Purple	5
humilis flava, fl. pl. Double Yellow.	10
meteloides. (Wrightii). White and lilac.	5

DELPHINIUM (Larkspur). In variety and beauty of its blue tints which are as numerous as they are charming, no other plant can equal the Delphinium. The brilliant flowers are strongly effective in beds or masses, in borders, shrubberies, or in combination with white lilies. Improvements are continually being made in the size of the flowers, as well as in the length and fulness of the spikes. Some of the species flower both early and late; the season for all can be prolonged by cutting away withered flower-stems. All varieties are easily cultivated and adaptable to many conditions, but



Delphinium (Larkspur), Tall Rocket

DELPHINIUM—Continued

in a soil deeply dug and well enriched with fine old manure, their blooms are the finest. Setting them $1\frac{1}{2}$ to 2 ft. each way is not too much for the taller sorts.

ANNUAL VARIETIES. These include the Rocket or Hyacinth-flowered, so called from their long, narrow flower spikes. They bloom best in a rather cool, moist soil. Sow seed in the open border, either in Spring or Fall, preferably the latter, so that germination may take place very early in the Spring. As the seedlings grow, thin them to stand 6 to 18 in. apart, according to variety. The varieties are seldom kept separate, as they are quite as pretty and convenient for cutting when sown in mixture. Some of these are really hardy biennials, but, because they bloom the first season, we treat them as hardy annuals. The shades of color cover a very wide range.

Pkt.

- Ajaxis, Dwarf Rocket.** Finest colors; very beautiful for bedding; 1 ft.
oz. 40c. **62810** 5
- " **Tall Rocket.** White; 2 ft. . . **62830** 5
- " **Tall Rocket.** Mixed colors; 2 ft.
62840 5

DELPHINIUM—Continued

Pkt.

- Ajaxis, Tall Branching.** Flesh-color; 2 ft.
62860 5
- " " " Rose **62861** 10
- " " " White, beautiful
for cutting. **62862** 10
- " " " Choice mixed; 2 ft.
 $\frac{1}{4}$ oz. 20c., oz. 60c. **62870** 5
- cardiopetalum.** Beautiful blue flowers;
1 ft. **62880** 5
- Emperor Branching Rose.** This and the
next are splendidly bright and
showy, often giving ten to
twenty erect spikes of flowers;
2 ft. **62890** 10
- " **Branching White.** Beautiful for
cutting. **62900** 10
- " **Branching, Mixed.**
 $\frac{1}{4}$ oz. 25c., oz. 75c. **62910** 10
- Newport Rose.** A rose-colored and very
beautiful, free-flowering sort. If sown
outdoors in Spring, it will bloom by the first
of August; 2 ft. **62920** 10
- Newport Scarlet.** **62925** 25

PERENNIAL VARIETIES. These are usually
taller than the annuals, requiring more space
between the plants. If sown in the Fall or
very early Spring, nearly all will bloom the first
season. Foliage clean and pretty; habit strong
and neat; flower-spikes long and dazzling.

Pkt.

- Barlowi.** Large, dark blue flowers; extra
fine; 3 ft. **62930** 25
- Belladonna.** Lovely pale blue; handsome
plant; comes very true from seed; 4 ft.
62940 15
- cardinale.** Orange-scarlet; a California
native; 2 ft. **62960** 25
- chinense, Mixed** (*C. grandiflorum*). Large
flowers, ranging from pure white to indigo-
blue. Young seedlings will bloom from
Midsummer until frost; 2 ft. **62980** 10
- chinense azureum.** Beautiful distinct shade
of blue; 2 ft. **62990** 10
- elatum, Blue** (*Bee Larkspur*). Soft, clear
blue; tall spikes; 3 ft. **63000** 10
- " **hybridum, Finest Mixed.** Very
showy. **63010** 10
- formosum.** Brilliant blue, white center;
especially fine; 3 ft. **63030** 25
- formosum caelestinum,** clear blue, hand-
some. **63040** 25
- New Large Hybrids, Mixed.** All shades
of blue from best named single-flowering
varieties; 3 ft. **63060** 25
- Zalil (sulphureum) (hP).** Long spikes of
yellow flowers; 2 ft. **63090** 30

DENDROMECON rigidum (California Yellow Tree Poppy). An easily grown greenhouse shrub with yellow flowers; 2 ft.**63250** 25 Pkt.

DIANTHUS. See *Pinks, Carnations* and *Picoles.*

DICTAMNUS (Gas Plant). Ornamental hardy perennials; can remain for years undisturbed the leaves, when rubbed, have a lemon odor; 3 ft.

- Pkt.
- Fraxinella. Red.....**63290** 10
- “ albus. White.....**63300** 10

DIGITALIS. See *Foxglove.*

DIMORPHOTHECA (African Orange Daisy.) Easily grown, hardy annual of great beauty; 12 to 15 in. in height, and bushy.

- Pkt.
- aurantiaca. Orange; very fine.....**63340** 10
- “ hybrida. New fine varieties, mixed.....**63350** 10

†DOLICHOS. Very rapid-growing hardy annual climber, bearing Pea-shaped blossoms and ornamental seed pods. Fine for covering screens, etc.; 10 ft.

- Pkt.
- Lablab (Hyacinth Bean). Purple. oz. 30c..**63390** 5
- “ albus. White.....oz. 30c..**63400** 5
- “ Mixed.....oz. 30c..**63410** 5

Purple Soudan. Purple flowers in racemes; good foliage.....**63440** 5

***DRACÆNA.** Ornamental greenhouse plants; fine for pots, vases, or beds.

- Pkt.
- *Australis.** Dark green foliage; 3 ft..**63495** 25
- *indivisa.** Narrow green leaves; 4 ft..**63500** 25

DRACOCEPHALUM moldavicum (Balm). An easily grown hardy annual; blue flowers; fine for bees; 2 ft.....**63520** 5

ECHEVERIA. Interesting greenhouse succulent plants extensively used for “carpet” bedding; bluish green leaves; 3 to 6 in.

- Pkt.
- metallica. Yellow.....**63590** 25

†ECHINOCYSTIS lobata (Wild Cucumber). A rapid-growing annual climber.....**63620** 5

ECHINOPS Ritro. A hardy perennial of stiff growth; flowers blue; fine for bees; 2 ft.....**63630** 10



Dimorphotheca aurantiaca hybrida

EMMENANTHE penduliflora (California Golden Bells). A bushy-growing, hardy annual, with long-lasting yellow flowers; 1 ft.....**63670** 25 Pkt.

ENKIANTHUS Japonicus. Showy, deciduous shrub, hardy as far North as Washington, D. C. White flowers; leaves dying off in Autumn a brilliant golden marked with red, with contrasting black berries..**63680** 10 Pkt.

ERICA (Heath). Charming greenhouse shrubs.....**63730** 25

ERODIUM moschatum. Pretty; little hardy annual; good for borders; purple flowers; 3 in.....**63790** 5 Pkt.

ERYNGIUM. Extremely ornamental, hardy perennials, well adapted for the garden border.

- Pkt.
- giganteum (Silver Thistle). Blue; 4 ft **63820** 10

ERYSIMUM. Free-flowering, hardy annuals of neat habit and bright colors; style of wall-flowers; 1 to 1½ ft.

- Pkt.
- arkansanum. Yellow.....**63840** 5
- Perofskianum. Orange.....**63850** 5



Eschscholtzia Californica

ESCHSCHOLTZIA Commonly called California Poppy. The state flower of California. This much esteemed hardy annual is very bright and rich in its pure tints of yellow, orange, etc. The plants average about a foot in height, with silvery foliage, and produce their large, Poppy-like flowers from early Spring until frost. They are most effective when grown in beds of considerable size, over which the seed may be sown broadcast thinly, and lightly raked in. These sowings may be made early in Spring or late in Autumn for earlier germination, blooming the next Spring. Useful as a pot-plant and for cut-flowers.

- | | | |
|---------------------|---|----------|
| THORBURNI. | Coppery orange; the effect of a plant in bloom is simply gorgeous; the flowers are larger than those of other Eschscholtzias, and are borne with equal profusion; finest of all | Pkt. 10 |
| californica. | Rich yellow...oz. 50c. | 63910 5 |
| " | alba. Creamy white... | 63920 5 |
| " | alba fl. pl. Fine sort, with double, creamy white flowers..... | 63930 10 |
| " | Carmine King. Carmine-rose; beautiful..... | 63950 10 |
| " | Rose-Cardinal. Carmine-rose..... | 63960 10 |
| crocea. | Pure, deep orange..... | 63990 5 |
| " | Double Orange | 64000 5 |

ESCHSCHOLTZIA—Continued

Pkt.

Mandarin. Red-gold flowers, orange within and scarlet without..... **64020** 5

maritima, Golden West. A superb variety with very large flowers of deep yellow; blooms all Summer; 2 ft..... **64040** 5

Mixed. Many sorts.
¼ oz. 20c., oz. 50c. **64060** 5

EUCHARIDIUM grandiflorum. Graceful and showy; little hardy annuals, nearly allied to Clarkia; fine for edgings and pots; rosy red flowers; 1 ft..... **64080** 5

†EUPATORIUM Fraseri. Splendid hardy perennials; clusters of white flowers, fine for cutting; 1½ ft..... **64100** 5

†EUPHORBIA. Very ornamental-leaved, strong-growing hardy annuals; fine for beds and borders; 2 to 3 ft.

Pkt.

variegata (Snow-on-the-Mountain). Green-and-white foliage..... **64110** 5

heterophylla (Mexican Fire Plant). Glossy green-and-carmine leaves..... **64120** 10

EUTOCA VISCIDA. Dark blue..... **64160** 5

FENZLIA. Pretty, hardy annuals for edgings, ribbon-gardening or pots; about 3 in.

Pkt.

dianthiflora. Rosy lilac..... **64190** 25

" **alba.** White..... **64200** 25

FERNS (gP). Assorted varieties for the greenhouse. Sow in fine, sifted sandy, peaty loam, covering the pots with pieces of glass..... **64220** 25

FEVERFEW. See *Matricaria*.

FLAX. See *Linum*.

FORGET-ME-NOT (*Myosotis*.)

These dainty

little flowers love cool, moist soils, and like Pansies, bloom most freely in Fall and early Spring. They make beautiful close borders, or edgings, and will bloom nicely in Winter in a cool room or cold-frame. They establish themselves by self-seeding. Sow in Spring in a warm, sunny border. Most varieties bloom freely the first season and profusely the second. Average height, 6 to 8 in.

Pkt.

alpestris (hB). A pretty trailer, with blue flowers..... **64260** 10

" **alba.** White flowers, very dainty in effect..... **64270** 10

" **Indigo-Blue.** Very fine.... **64300** 10

" **robusta grandiflora** (*Eliza Robertson*). Grown extensively for cutting. Large, sky-blue florets with yellow eye, in large clusters..... **64320** 15

FORGET-ME-NOT—Continued	Pkt.
alpestris rosea. Rosy flowers; pretty contrast with blues and whites 64330	10
“ Victoria. Strong-growing; dwarf habit; flowers large, globular, sky-blue, abundant; fine for borders, growing in pots and for cutting..... 64340	15
“ Mixed 64350	10
hybridus, Ruth Fischer (hB). Pure Forget-me-not blue. Fine for cutting and for hanging baskets. Can be forced successfully and, owing to its extreme hardiness, it is valuable for Spring bedding in open ground..... 64400	25
palustris (hP). (True Forget-me-not). dark blue; blooms the second year abundantly all season; the best known of all..... 64410	10



Foxgloves

FORGET-ME-NOT—Continued	Pkt.
palustris semperflorens (hP). Bright blue; dwarf; blooming from Spring until Autumn; foliage a good shade of green..... 64420	25
FOUR O'CLOCK (Mirabilis). Favorite half-hardy annual of the easiest culture and very suitable for large beds and borders. Called Four O'Clock because it opens its blossoms at that hour in the afternoon. Also known as Marvel of Peru. Handsome, free-flowering, sweet-scented; blossoms variegated, striped and of various colors.	
	Pkt.
Hybrids, Mixed. Fine assortment; 2 ft. oz. 30c.. 64460	5
longiflora alba. White; 2 ft..... 64480	5
Variegated-leaved. Many colors; 2 ft. 64490	5
Tom Thumb, Mixed. Very fine; 1 ft. 64510	5
FOXGLOVE (Digitalis). The tall flower spikes of the Foxglove, often 2 to 3 ft. in height, are particularly handsome, when grown among shrubbery, or in bold masses, as a background for lower growing plants, they are very attractive. Hardy perennials, they are most satisfactory when treated as biennials. Sow the seed out of doors in Spring and transplant the seedlings into their permanent places. They will bloom magnificently the following Spring; giving them a deep soil in partial shade.	
	Pkt.
purpurea, Purple, the well-known variety. 64580	10
“ Rose. Very showy; long spikes..... 64590	10
“ White. Fine and attractive. 64600	5
“ Mixed 64610	5
gloxinioides, Purple 64620	10
“ Rose. Bright, showy flowers borne profusely on fine spikes..... 64630	10
“ White. Very handsome, Gloxinia-like flowers; robust; beautiful for cutting. 64640	10
“ Mixed. All the choice colors. 64650	10
grandiflora lutea, Yellow. Large-flowered; long racemes of bell-shaped blossoms; dwarf..... 64660	10
monstrosa, Splendid Mixed. Very large, bell-shaped flowers of exquisite beauty, borne on long spikes; 4 ft..... 64680	10

FUCHSIA (Ladies' Eardrops). The well-known Spring-blooming greenhouse plants; also fine for the window-garden. As bedding plants they do splendidly in the Summer if given partial shade and rich soil.

	Pkt.
hybrida, Finest Single, Mixed ...	64790 50
" Finest Double, Mixed ...	64800 50
" Finest Single and Double, Mixed	64810 50

GAILLARDIA (Blanket Flower). Both the annual and perennial varieties of Gaillardia are very showy and free bloomers all Summer long until frost; good in any situation and easily grown; the individual flowers are of large size, very durable and most brilliant in color; fine for bouquets; 2 to 3 ft.

	Pkt.
† grandiflora maxima (hP). Golden yellow; 2½ ft.....	64890 10
" Extra-fine Mixed (hP).	64910 10

All the following *Picta* sorts are most elegant annuals and well deserve very generous plantings.

	Pkt.
picta (hA). Red-and-yellow; very brilliant	
	64930 5
" Lorenziana . Double; mixed colors; flowers large.....	64940 5
" Salmonea . Salmon-red, fine...	64950 10
" Mixed . Finest colors.....	64960 5

GALEGA. Ornamental, tall-growing, hardy perennials, well suited for borders or cutting; blooms all Summer; 3 to 4 ft.

	Pkt.
officinalis . Blue.....	65000 5
" alba . White.....	65010 10

GAURA LINDHEIMERI, free flowering, hardy annual, very effective in clumps, red-tinted white flowers, 2 to 3 ft.... **65070** 10

GENISTA canariensis. Ornamental and free-flowering tender perennial; yellow flowers; 2 ft..... **65090** 10

GENTIANA. Showy hardy perennials, valued for their beautiful, intense blue flowers early in the season.

	Pkt.
acaulis (blue gentian), dark blue, height 3 in.....	65100 10

GERANIUM. Most valuable greenhouse plants, blooming continuously. For bedding in the out-door garden nothing equals them. 1½ ft.

	Pkt.
Zonale . Scarlet.....	65130 10
Apple-scented . Pink; fragrant foliage.	65150 25
Choice Mixed	65152 25

See, also, *Pelargonium*.

GERBERA. (Transvaal Daisy). Very pretty half-hardy perennials, fine for garden border and also Winter forcing; grows about 2 ft. in height and blooms all through the season.

GERBERA—Continued

	Pkt.
Jamesonii . Deep scarlet (25 seeds in a packet).....	65180 25
" hybrida, New Hybrids . Great diversity of colors, from pure white to dark red; fine for cutting (25 seeds in a packet).....	65190 30

GEUM. Handsome hardy perennials that bloom freely all the season; fine for bouquets; 1½ ft. in height.

	Pkt.
coccineum . Scarlet.....	65240 10
atrosanguineum fl. pl. Double; crimson.....	65250 10
Mrs. J. Bradshaw . Large, brilliant scarlet.....	65256 25

GILIA. Pretty hardy annuals that bloom most freely and continually the whole season. Do finely in any situation; look well on lawn and in beds; are good for rockeries, and can be planted at any time; 1 ft.

	Pkt.
achilleifolia . Blue.....	65280 5
capitata . Light blue.....	65310 5
tricolor . Violet, yellow and white...	65360 5
Mixed	65380 5

†**GLAUCIUM** (Horned Poppy). Showy, hardy perennial, with large, Poppy-like flowers and glaucous-blue foliage; of easiest culture; 2 ft.

	Pkt.
tricolor	65410 10

GLOBE AMARANTH. See *Gomphrena*.



Gaillardia grandiflora

GODETIA. Favorite, free-blooming, hardy annuals, with widely opened flowers of satiny texture, and of the most delicate and lovely colors. They are beautiful for solid beds, border lines, pots, and for growing in shaded places, where so few really fine flowers will flourish. Sow seed in the open border in Spring, or in a coldframe, and transplant seedlings to stand a foot apart in rather thin soil. *Fine for cut-flowers.* Average height 1 ft.

	Pkt.
Bijou. Of dwarf, bushy habit; lovely blush-white flowers borne in great profusion.....	5
Crimson Glow. Intense, dazzling crimson; fine, compact grower; very floriferous	15
Duchess of Albany. Satiny white...	10
Fairy Queen. Large white flowers, with carmine spots.....	10
gloriosa (Lord Roberts). Darkest red; dwarf.....	10
Lady Albemarle. Dark crimson....	10
Lady Satin Rose (G. Whitney compacta, Brilliant). Bright carmine.....	5
Lindleyana. White and red.....	5
Princess of Wales. Brilliant carmine; fine cut-flower variety.....	5
Rosamund. Large, glossy pink....	10
rubicunda splendens. Brilliant red; fine	5
	5
The Bride. White and crimson.....	5
White Pearl. Beautiful glossy white on long stems.....	10
Whitneyi Brilliant. Carmine, very showy	5
	5
Mixed, Tall Varieties ¼ oz. 20c....	5
“ Dwarf Varieties.	
¼ oz. 25c., oz. 75c....	5

GOLDEN FEATHER. See *Pyrethrum*.

GLOXINIA. Greenhouse plants with magnificent flowers of great brilliancy; very decorative. If the seed is started early in the season the plants bloom the same Summer; do best in light, rich soil; fine pot plants for the window garden; 1 to 1½ ft.

	Pkt.
hybrida grandiflora—	
Mixed	50
robusta	50
crassifolia erecta, Mixed	50
Defiance. Glowing scarlet; superb; fine foliage.....	50
French Tigered and Spotted. Very rich colors; splendid.....	50
Gigantea “Cyclops.” Carmine, white border, throat dotted with dark red..	50
“ “Goliath.” Purple, white border, delicately spotted throat.....	50

GOMPHRENA (Globe Amaranth). These well-known, hardy annuals are among the most popular of the Everlastings for dried Winter bouquets; also well adapted for beds and edgings in the garden. Their round heads of flowers are also called Bachelor's Buttons; 1 ft.

GOMPHRENA—Continued

	Pkt.
globosa rubra. Purplish red.....	5
“ alba. White.....	5
“ carnea. Flesh pink.....	5
“ variegata. Striped.....	5
“ Mixed	5



Godetia

GOURDS (Ornamental) (hhA). These rapid-growing, annual climbers have most luxuriant foliage and are excellent for covering verandas or trellis-work, and for training over arbors, fences, etc.; bear most curious fruit; the vines are immune from insect pests; 10 to 25 ft.

	Pkt.
Apple-shaped. A good sort.....	5
Bottle Gourd	5
Calabash (The Pipe Gourd).....	10
Dipper-shaped	5
Dish-cloth (Chinese Luffa). Interior useful as a sponge.....	5
Egg-shaped. White, egg-like fruits..	5
Heracles' Club. Long, green fruits..	5
Knob-Kerrie Gourd. Green-and-yellow fruits; ball-shaped, with long handles	10
Mock Orange. Orange-shaped fruits. One of the best known.....	5
Pear-shaped. Very showy.....	5
Sugar Trough	5
Mixed. A fine assortment.....	5

GREVILLEA robusta (Silk Oak). Graceful evergreen, greenhouse plant, easily raised from seed; fern-like foliage; fine for table decoration.....**66040** 10

GUNNERA (Chilian Rhubarb). Hardy perennial decorative lawn plants; leaves gigantic, often 7 to 8 ft. long; flowers reddish purple. Need rich soil and plenty of water; 4 to 6 ft.

Pkt.
manicata.....**66060** 25
scabra.....**66070** 25

GYSOPHILA (Baby's Breath). Both the annual and perennial varieties are most easily grown; very graceful and delicate flowers and foliage; fine for rockwork or shrubbery and bouquets; 2 ft.

Pkt.
elegans grandiflora alba (hA.) Large flowering, white. Oz. 40c.**66100** 10
" **carminea** (hA.) Rose carmine; elegant.....**66110** 10
" **rosea** (hA.) Rose.....**66120** 5
muralis (hA.) Pink; dwarf; very fine; 6 in.....**66130** 10
paniculata (hP). White; fine for bouquets.....**66150** 10
" **fl. pl.** (hP). Fine clusters of double white flowers; rare; foliage very dainty and filmy; very fine for cutting...**66160** 50

†**HEDYSARUM**. Hardy biennials, with racemes of beautiful, pea-shaped flowers; adapted for borders and rockwork. Of the easiest culture. So-called "French Honeysuckle," but no relation to that vine. Not a climber; 3 ft.

Pkt.
coronarium. Scarlet.....**66240** 5
" **album**. White.....**66250** 5

HELENIUM autumnale superbum (Sneeze-wort). Late-flowering, hardy perennials; broad heads of elegant, golden yellow flowers; fine for cutting; 5 to 6 ft....**66270** 10

HELICHRYSUM (Eternal Flowers). A most popular, hardy annual; the flowers are large and the color bright; highly prized for Winter bouquets. Flowers intended for drying should be gathered when partially unfolded and suspended with heads downward in cool and airy place; 1 to 2 ft.

Pkt.
bracteatum. Single flowering; yellow.**66290** 5
" **album**. White.....**66300** 5
" **Mixed**, ¼ oz. 25c.....**66330** 5
monstrosum, Double Mixed.....**66340** 10
" **Dwarf Double Mixed****66350** 10

HELIOTROPIUM (Heliotrope). These favorite greenhouse and bedding plants are highly valued for their scented flowers; succeed best in light but rich soil; bloom first season from seed; 1½ ft.

Pkt.
peruvianum. Light Blue.....**66430** 10
White Lady. White; large flower....**66450** 10

HELIOTROPE—Continued

Lemoine's Giant, Mixed. Very fine, large flowers.....**66460** 15
Dark-flowered Sorts, Mixed.....**66470** 10
Fine Mixed.....**66480** 10

HELLEBORUS (Christmas Rose). These well-known, Spring-flowering, hardy perennials thrive finely in any common soil, in a sheltered, semi-shady situation: 1 ft.

Pkt.
Niger. White.....**66560** 10
Mixed Hybrids. Very fine.. ..**66570** 25

HESPERIS. See *Rocket*.

HEUCHERA. Compact-growing, hardy perennials, with erect spikes of brilliant flowers; fine for the border, blooming all Summer; nothing more desirable for cut-flowers; 1 ft.

Pkt.
sanguinea. Crimson; fine for pots and cutting.....**66600** 15
" **splendens**. Dark red; splendid.....**66610** 25
" **hybrida, Mixed**. Many effective varieties.....**66620** 15

HIBISCUS (Mallow). All the species bear very showy flowers and are easily grown; should be employed largely in every garden.



Gypsophila paniculata

HIBISCUS—Continued

Pkt.

- africanus** (hA). Free flowering, fine annual; flowers yellow and purple; 2 ft. **66640** 5
- Coccineus** (speciosus) (gS). Large rose-red flowers. **66645** 10
- Crimson Eye** (thP). White and crimson; splendid in borders; 4 ft. **66650** 10
- Golden Bowl** (hP). Very large flowers of a deep rich cream color, with velvety maroon center. **66655** 10
- moscheutos roseus** (hP). Large rose-colored flowers; 4 ft. **66670** 10

HOLLYHOCKS

(*Althea rosea*). Although Hollyhocks are very permanent and hardy for the first

HOLLYHOCKS—Continued

Winter, it is advisable to sow seed every year of these splendid, hardy, perennials, as the flowers on young, vigorous plants are much finer than on old ones. Sowings should be made in April or May, and not later than June, to flower the next year. In final transplanting give each seedling a foot or more space each way for development. They succeed best in an ordinary deep, rich soil. They make a glorious show in the garden with their splendid spires of flowers. Water well in dry weather. Average height 6 ft.

- | | | | |
|-----------------------------|---------------|--------------|---------|
| Bright Pink | 1/4 oz. 60c.. | 66710 | Pkt. 10 |
| Bright Rose | 1/4 oz. 60c.. | 66720 | 10 |
| Bright Scarlet | 1/4 oz. 60c.. | 66730 | 10 |
| Chamois Rose | 1/4 oz. 60c.. | 66750 | 10 |
| Crimson | 1/4 oz. 60c.. | 66755 | 10 |
| Salmon | 1/4 oz. 60c.. | 66790 | 10 |
| Snow White | 1/4 oz. 60c.. | 66800 | 10 |
| Yellow | 1/4 oz. 60c.. | 66810 | 10 |
| Mixed Double | 1/4 oz. 60c.. | 66820 | 10 |
| “ Allegheny, Fringed | 1/4 oz. 75c.. | 66830 | 15 |
| “ Single | 1/4 oz. 50c.. | 66840 | 5 |

†**HONESTY** (*Lunaria biennis*). Hardy biennial, with silvery seed vessels; prized for Winter decorations; 2 ft.

- | | | |
|---------------------|--------------|---------|
| Purple | 66920 | Pkt. 10 |
|---------------------|--------------|---------|

HORNED POPPY. See *Glaucium*.

HUMEA. Half hardy biennial; white, sweet-scented flowers; keep in pots the first season, then plant out in garden border; 5 ft.

- | | | |
|----------------------|--------------|----|
| elegans | 66940 | 15 |
|----------------------|--------------|----|

†**HUMULUS** (Climbing Hop). The well-known, fast-growing, hardy annual climber; 15 to 20 ft.

- | | |
|---|----------------|
| japonicus (Japanese Hop). Beautifully cut green foliage; makes fine shade. | Pkt. |
| oz. 60c..... | 66960 5 |

- | | |
|---|-----------------|
| “ variegatus . With white-variegated leaves; fine. | 1/4 oz. 25c.; |
| oz. 75c..... | 66970 10 |

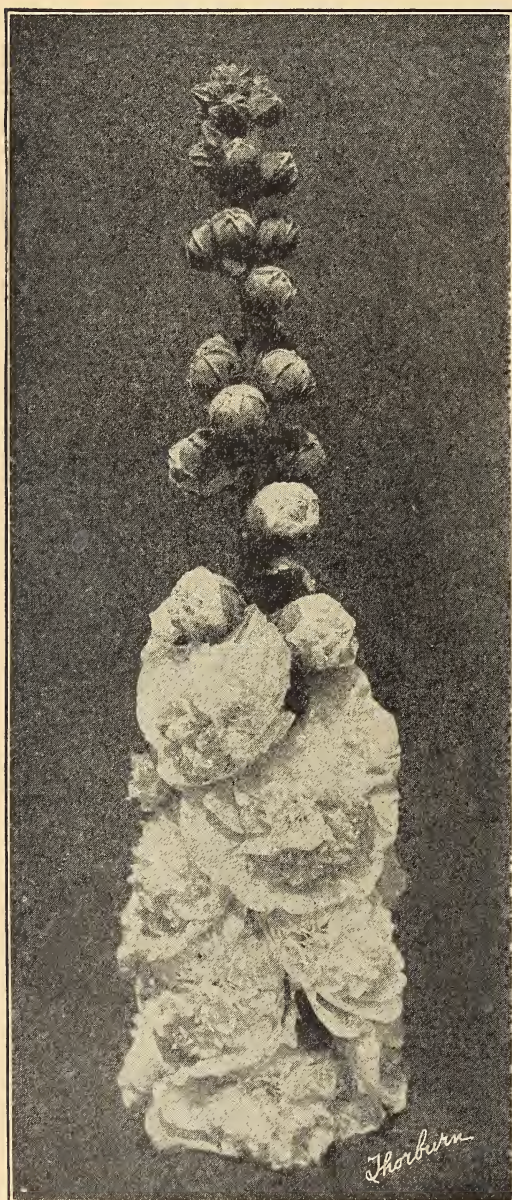
HUNNEMANNIA fumariaefolia. Very showy, hardy annual, with large golden yellow flowers and feathery, glaucous foliage; 1½ ft. **66980** 10

IBERIS. See *Candytuft*.

ICE PLANT (*Mesembryanthemum crystallinum*). Half-hardy annual; its succulent leaves are covered with watery vesicles resembling pieces of ice; white flowers; 6 in. **67040** 5

See, also, *Mesembryanthemum*.

IMPATIENS (Touch-Me-Not). Charming greenhouse and window-garden plants that bloom profusely and almost continuously. Good also for bedding; 1 to 1½ ft.



Double Hollyhocks.

IMPATIENS—Continued

	Pkt.
Holstii , large vermillion flowers; quick grower, splendid.....	67060 25
“ hybrida, Mixed. Finest colors.....	67070 25
Sultani. Bright, rosy carmine; fine for pots.....	67080 25
“ hybrida, Mixed. Splendid mixture.....	67100 25
glanduligera (tA). Purple flowers; bright foliage.....	67110 10
* INCARVILLEA. Ornamental, hardy perennials, with brilliant, Gloxinia-like flowers; continuous bloomers; succeed well in any situation, and make a fine show in the garden; 2 to 3 ft.	
Delavayi. Rosy carmine; splendid border plant.....	67130 25

†**IONOPSIDIUM** (Diamond Flower) (hhP).

acaule White. Pretty.....	67180 25
“ Lilac	67185 25



Incarvillea Delavayi

†**IPOMOEA** (Moonflower; Morning Glory; Cypress Vine). Of

all climbers for garden and greenhouse these are the quickest and most luxuriant in growth. Ipomoeas grow so easily from annual sowings that it is no longer thought necessary to Winter over roots or young cutting plants under glass. The large, thorny seeds of some varieties should be soaked in hot water before planting. For early flowers sow in hot-beds, or pots and boxes under glass, and transplant to rich, deep soil in Summer quarters as soon as danger of frost is over, when sowings may also be made in the open ground. Nothing finer for porches, trellises, etc.

* These are very hard-seeded, and in order to hasten germination, a notch should be filed in the seed before planting.

ANNUAL VARIETIES. From early sowings these begin to bloom about Midsummer, and are full of beautiful flowers all the season, often blooming freely until cut down by frost.

	Pkt.
* bona nox. (Good Night, or Evening Glory). Large, blue flowers open in the evening; 15 ft.....	67200 5
coccinea. Scarlet flowers; 10 ft.....	67210 5
hederacea grandiflora superba. Rich sky-blue flowers with white margins; 15 ft.....	67230 5

IMPERIAL JAPANESE MORNING GLORY.

The leaves are mostly plain green, but some are oddly blotched with white or yellow. Flowers vary from pure white to carmine, through blues and purples of every shade; 30 to 40 ft.

	Pkt.
Finest Single Mixed. Large flowered; all colors.....	67260 5
Fringed Single Mixed. All beautifully fringed.....	67270 5
Giant Mikado. Largest flowered....	67290 10

IPOMOEA—Continued

	Pkt.
limbata. Violet and white; 5 ft.....	67320 5
* mexicana grandiflora alba. The great white Moonflower; 15 ft.....	67330 10
“ grandiflora hybrida alba. Flowers very large and numerous; 15 ft.....	67340 10
“ grandiflora hybrida. Pink. (Giant Pink Moonflower).....	67345 10
rubro-caerulea, Heavenly Blue. The very large, clustered flowers of beautiful sky blue open early in the morning. Unusually distinct and handsome; 10 ft. Sow early.....	67370 10
rubro-caerulea grandiflora. Early flowering. Produces gorgeous sky-blue flowers with rose-colored markings, from 4 to 5 inches across, in great abundance. Rapid grower. If sown in boxes or hotbeds the young plants may be set out in April or May in a sunny situation, where they will flower from about Midsummer until frost. Flowers remain open all day; 15 to 18 ft.....	67390 15
Quamoclit (Cypress Vine; Star Flower). A tender annual, with finely cut leaves and small, star-shaped flowers. This, the type, is scarlet flowered; 10 ft.....	67430 5

QUAMOCLIT HYBRIDA—CARDINAL CLIMBER. One of the best annual climbers introduced for many years. Rapid grower, with branching habit; flowers all Summer in fiery cardinal-red clusters; 25 ft.....	67440 25
“ White	67460 5
“ Mixed Cypress Fine	67470 5

IPOMOEA—Continued

Ivy-leaved Cypress Vine. Pretty leaves, deeply lobed; fiery orange-scarlet flowers
Pkt. 10
67480

Greenhouse Climbers. These handsome vines grow nicely in open ground, but bloom almost too late to be very useful there, in all except warm climates. Grown in pots, tubs or greenhouse beds they flower grandly between October and Spring.

setosa (Brazilian Morning Glory). This vine makes an immense, thick growth of great, lobed leaves lighted by a profusion of large, rosy flowers, with a satiny pink star in the centers. The red pubescent stems and seed-pods add very much to its attractiveness; 10 to 20 ft. Pkt. 10
67530

IPOMOPSIS. Showy and beautiful, tender biennials; the seeds should be started in the house; flowers very bright in color; 2 ft.

elegans, Mixed Pkt. 10
67590

IRIS Kaempferi. These most desirable, hardy, herbaceous perennials begin to bloom the second year from seed. Our assortment is saved from a fine collection; 2 ft. Pkt. 10
67620

JACOB'S LADDER (Polemonium). Beautiful, old-fashioned, hardy perennial border plants; flowers in clusters; 2 ft. Pkt. 5

Blue 67650
White 67660

JACOBÆA (Senecio). Very free flowering, hardy annuals of easy culture; good for both pots and bedding; 1 to 1½ ft. Pkt.

elegans fl. pl., Tall Double, White 67680 5
" " " **Tall Double, Purple** 67690 5
" " " **Tall Double, Mixed** 67700 5

JOB'S TEARS. See *Coix Lacrymæ*, page 130.

JOSEPH'S COAT. See *Amarantus*.

KAULFUSSIA. Hardy annual, succeeding well in any good soil; fine for edgings and pots; good habit and bright colors; 1 ft. Pkt.

ameloides. Blue 67770 10
" **Kermesina.** Violet red 67790 10
" **Mixed** 67800 10

KENILWORTH IVY. See *Linaria*.

KOCHIA trichophylla (Improved Summer Cypress). A rapid-growing, hardy annual; foliage green, turning to fiery red in Autumn; very ornamental on the lawn; 2 to 3 ft. in height.

oz. 40c. Pkt. 5
67860

‡**KUDZU VINE (Pueraria Thunbergiana).**

A perennial climber from Japan; fine when once established, often growing 40 ft. in a season. Purplish violet, fragrant, Wistaria-like flowers; good foliage. Pkt. 10
67880

‡**LANTANA, Fine Mixed.**

Rapid-growing, tender perennial, forming small bushy shrubs; fine for bedding and pot culture; 2 ft. 5
67930

LARKSPUR. See *Delphinium*.

LATHYRUS latifolius (Perennial Pea) (hP). These have not the fragrance of Sweet Peas, but bloom through a long season; are hardy and will live for years; they make a beautiful screen for rocks, stumps, fences, etc.; 4 to 8 ft. Pkt.

Crimson. Beautiful shade. 10
68000

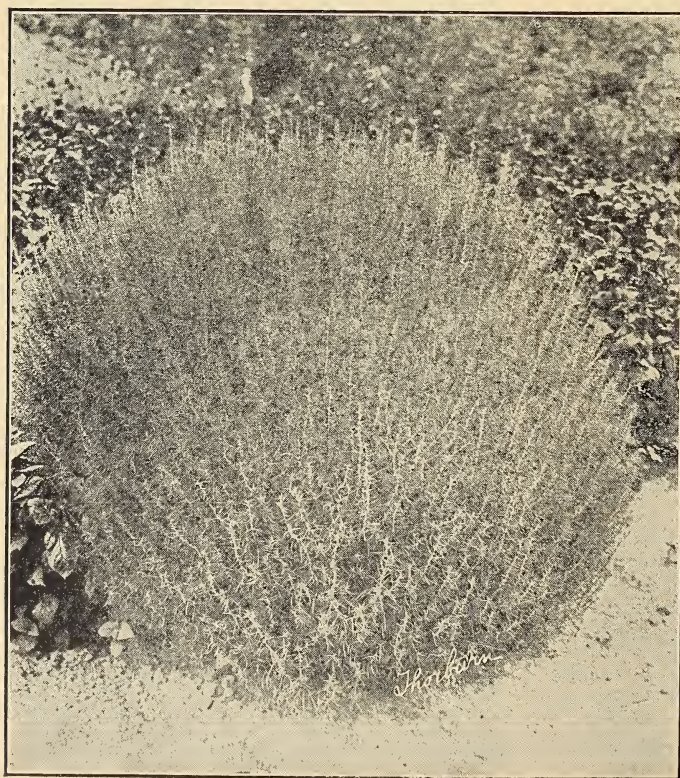
Pink Beauty. Blossoms white, veined, edged and shaded pink. 10
68010

White. Valuable for cut-flowers in Midsummer. 10
68020

Mixed. oz. 60c. 10
68025

LAVATERA. Very showy and free flowering; splendid for large beds in the garden, where they bloom all Summer; fine for cut-flowers. Pkt.

trimestris (hA). Red; makes a brilliant show in the garden; 2½ ft. 5
68080



Kochia trichophylla

LAVATERA—Continued

Pkt.

- " **alba** (hA). White.....**68090** 5
 " **arborea** (Tree Mallow) (hB).
 Purple; 6 ft.....**68100** 5

LAYIA elegans. Pretty, dwarf-growing, hardy annual with yellow-and-white flowers; of easiest culture; 1 ft.....**68140** 10

LEMON VERBENA. See *Verbena*.

LEPTOSIPHON. Elegant, hardy annuals, and should be in every garden; fine for edgings or rockeries; blooms in masses; 1 ft.

Pkt.

- androsaceus.** Lilac.....**68200** 10
 " **albus.** White.....**68210** 10
densiflorus. Blue.....**68240** 10
 " **albus.** White.....**68250** 10
Mixed Hybrids.....**68260** 10

LEPTOSYNE. Fragrant, half-hardy annuals; large Marguerite-like flowers on long stems, good for cutting; 1 to 2 ft.

Pkt.

- maritima.** Yellow.....**68290** 10
Stillmanii. Golden yellow; blooms six weeks after sowing.....**68300** 10

LIMNANTHES Douglasii. A vigorous, dwarf-growing, hardy annual, with yellow and white, fragrant flowers; 1 ft.....**68350** 10

LINARIA (Toad Flax). Snap-dragon-shaped flowers, fine for cutting. The dwarf-growing varieties are desirable for edgings and rock-work; all of the easiest culture.

Pkt.

- bipartita.** Purple; 1 ft.....**68390** 5
 " **Fine Mixed**.....**68405** 5
maroccana (hA). Purple; 9 in....**68410** 5
 " **Mixed Hybrids** (hA). Very fine; 9 in.....**68420** 10
cymbalaria (Kenilworth Ivy) (hP). Charming, hardy perennial, trailing plants for baskets, rock-work, etc.....**68430** 10

LINUM (Flax). Pretty, free-flowering garden plants of easy cultivation.

- grandiflorum rubrum** (hA). The favorite Scarlet Flax. Large flowered; 1 ft.....**68480** 5
 " **Blue.** Pretty.....**68485** 5
perenne. A graceful hardy perennial; color blue; 2 ft.....**68495** 5

LOBELIA The *Erinus* varieties bloom very quickly from seed and flower all through the season. For beds, edgings, baskets and pots there is nothing prettier. Sow outdoors in early Spring where the plants are to grow, and thin moderately; or transplant several inches apart in rich, open soil. Some stimulant given when they are in bloom greatly improves the flowers. Almost all are also good Winter conservatory plants of trailing habit. The perennial or tall varieties are handsome, showy plants and will be found quite effective for backgrounds and grouping.

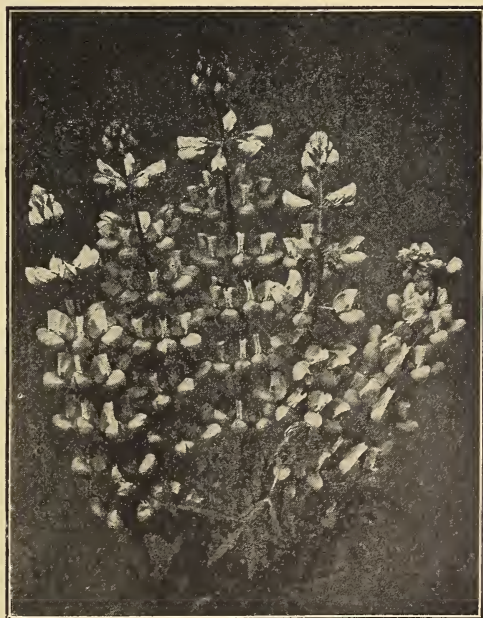
LOBELIA—Continued**ERINUS VARIETIES** (tA)—

Pkt.

- gracilis.** Blue; trailing; beautiful for baskets.....**68570** 5
speciosa, Crystal Palace. A favorite blue-flowered edging plant; 6 in.....**68580** 10
alba. White flowers.....**68610** 10
kermesina. Crimson.....**68620** 10
Lindleyana. Rose, white eye.....**68630** 10
Paxtoniana. Blue and white.....**68640** 10
Barnard's Perpetual. Deep blue, with white eye; very fine.....**68650** 10
Royal Purple. Deep blue, with a distinct white eye.....**68660** 10
Mixed.....**68670** 10
erecta, Crystal Palace compacta. Dark blue; for bedding; 6 in.....**68690** 20
 " **Emperor William.** Light blue; very fine.....**68700** 20
 " **Golden Queen.** Dwarf; blue flowers, yellow leaves; very fine sort.
68710 25
 " **White Lady.** Splendid, large-flowered, white.....**68720** 10
 " **Mixed**.....**68730** 10

PERENNIAL VARIETIES—

- cardinalis** (Cardinal Flower). Standing bold and erect with its crimson-scarlet flowers, this handsome, native perennial *Lobelia* is invaluable for the border or grouping among evergreens; 2½ ft..**68780** 10
ramosa. Blue; flowers profusely in Fall; 1½ ft.....**68810** 10
Tupa. Flowers crimson, strong grower, perennial suitable for border; height 8 to 10 ft.....**68815** 15



Lupinus Nanus—See page 104

LOPHOSPERMUM scandens. A splendid, Pkt.
tender annual climber, with trumpet-
shaped, dark rose flowers; 10 ft. **68840** 10

LOVE-LIES-BLEEDING. See *Amaranthus caudatus*.

LOVE-IN-A-MIST (*Nigella*). Pretty and orna-
mental, hardy annuals, with feathery fennel-
like foliage and curious flowers; of easiest cul-
ture. Also called "Devil-in-a-Bush"; 1 to
1½ ft. Pkt.

Double Blue	68890	5
Double White	68900	5
Miss Jekyll. Beautiful; double; Corn- flower blue.	68910	10
Blue Spanish	68930	5
White Spanish	68940	5
Mixed Spanish	68950	5
Mixed, All Sorts	oz. 30c. 68970	5

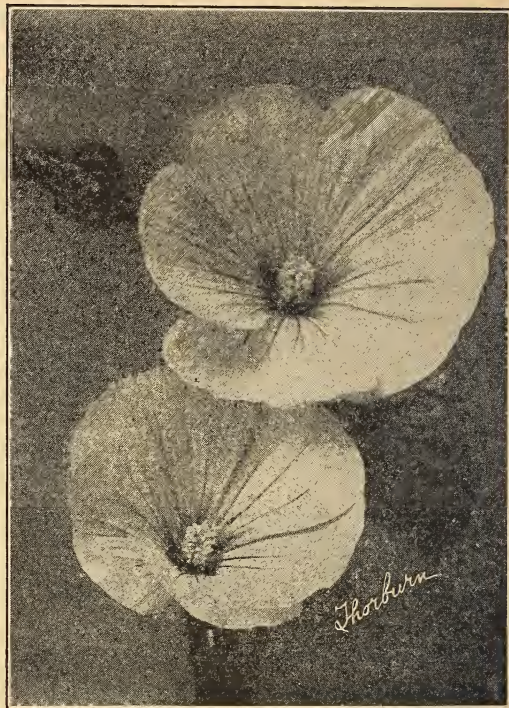
LUPINUS (Lupine).

ANNUAL VARIETIES. These garden favorites
are among the most beautiful of our hardy
annuals; extremely varied in color, of the
easiest culture and bloom all Summer. Splendid
for beds, borders and backgrounds; 2 to 3 ft.

Cruikshanksii. Blue, white and yel. Pkt. low	69000	5
Hartwegii. Blue	69010	5
" albus. White	69020	5
" roseus. Rose	69030	5
hirsutus. Blue; large flower	69050	5
" albus. White	69060	5
" ruber. Red	69070	5
mutabilis. White, yellow and violet; sweet scented	69100	5
nanus. Dwarf; blue; fine for growing in front of tall sorts. (See cut p. 103.)	69110	5
Large Blue	69115	5
" White	69120	5



Lychnis, chalcedonica—see page 105



Malope Grandiflora—see page 105

LUPINUS, Annual Varieties—Continued Pkt.

Mixed Annual Varieties . oz. 30c. **69130** 5

PERENNIAL VARIETIES. The hardy peren-
nial varieties of the Lupines are extremely
handsome and stately, bearing beautiful
flowers of rose, white, blue and yellow in color,
borne on erect, graceful spikes that are more
than a foot in length. They are certainly
among the most striking of hardy perennials;
grow very compactly about 3 to 5 ft. in height,
and bloom continuously and profusely during
the Summer. They are excellent for grouping
or massing in separate colors, and they suit
themselves to almost any position in the
border, making a good cut-flower, and of easy
culture, requiring ordinary moist soil, deep as
possible, but well drained, with plenty of old
stable manure, in any open, sunny position.
Sow seeds in April in their permanent places,
transplanting or thinning as may be required.

arbores. Yellow Tree Lupine	69160	10
" albus (Snow Queen), pure white; very fine	69170	25
polyphyllus. Blue	69200	5
" albus. White	69210	5
" Moerheimii. Rose and white of rather dwarf habit; very beautiful.	69230	25
" roseus. Rose; magnifi- cent	69240	25
" Mixed	69260	5
tricolor elegans. Orange, rose and white	69280	5



Marigold, Pride of the Garden

LYCHNIS. Free-flowering, hardy perennials, with brilliantly colored flowers; excellent for massing in beds and borders.

chalcedonica. Scarlet; 2 ft.....	69330	Pkt.	5
“ alba. White.....	69340		5

Haageana, hybrida Mixed. Fine colors; 1 ft.....	69360		10
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Arkwrightii , a cross between <i>chalcedonica</i> and <i>Haageana</i> ; many new and lovely colors. If sown early will flower in autumn; 1 to 2 ft.....	69370		30
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MALLOW. See *Hibiscus*.

MALOPE. Very pretty, free-blooming, hardy annuals with Mallow-like flowers. Sow the seed early; good for beds and borders, 2 to 3 ft.

grandiflora alba. White.....	69440	Pkt.	5
“ rosea. Rose.....	69450		5
“ rubra. Red.....	69460		5
“ Mixed	69470		5

MALVA. Handsome garden plants that bloom continuously all Summer and are very fine for cut-flowers.

MALVA—Continued Pkt.

moschata alba (musk mallow) (thP). White, fragrant; 2 ft.	69500	10
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“ rosea (thP). Rose-flowered variety; fine.	69510	10
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MANDEVILLEA suaveolens (gP). This fine greenhouse climber has deliciously sweet and beautiful, snowy white flowers; 10 ft. **69530** 10

MARIGOLD (Tagetes).

These, like the *Calendulas*, are valuable because they light the garden with such a grand glitter of yellow far into the frosts of Autumn. The dwarf varieties make a fine border for taller sorts, and both are effective when planted in groups or in garden borders. Hardy annuals. Average height, 1 to 2 ft. *All our own special strains, vastly different from the ordinary sorts commonly sold.*

AFRICAN VARIETIES—

Eldorado. Large, quilled, perfectly double; brilliant shades of yellow. ¼ oz. 20c., oz. 60c.	69570	Pkt	5
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Lemon Queen. Very rich lemon yellow.....	69580		5
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Orange. Rich.....	69590		5
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Pride of the Garden.

Extra large, double flowers of richest yellow: dwarf

and neat.....	69600		10
Prince of Orange. Beautiful orange color.....	69610		5
Mixed Double. ¼ oz. 25c., oz. 75c....	69620		5

FRENCH VARIETIES—

Tall Dark Brown. Reddish brown; extremely floriferous.....	69640		5
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Dwarf Striped. Flowers handsomely marked.....	69650		10
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“ Dark Brown. Beautiful reddish brown.....	69660		10
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“ Legion of Honor (Little Brownie). Single; golden yellow marked velvety red.....	69670		10
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Tall Mixed, Double. ¼ oz. 25c., oz. 75c....	69680		5
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Dwarf Mixed, Double. ¼ oz. 25c., oz. 75c....	69690		5
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See, also, *Calendula*.

MARTYNIA. Curious and handsome, half-hardy annuals for the border, with bright flowers, borne in profusion and followed by quaint pods which are used for pickling; 1½ ft.

proboscidea. Reddish white.....	69790		5
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MARVEL OF PERU. See *Four O'Clock*. Pkt.

MATHIOLA bicornis. A charming little annual of no particular beauty, but it has a most delicious odor perceptible at a considerable distance and in the evening permeating the whole of the atmosphere surrounding it with its delightful fragrance. 69820 10

MATRICARIA. Free-flowering, hardy annuals, with a profusion of dainty flowers; bloom all Summer; good for bedding or pots; 1½ ft.

capensis fl. pl. (Feverfew). Small, double, white flowers; pretty and neat. 69830 5

eximia, Golden Ball. Golden yellow; fine for pots. 69840 15

" **fl. pl.** Double; white. 69850 5

††**MAURANDYA.** Rapid-growing, half-hardy perennial climbers that can be treated as annuals. Fine for garden or greenhouse; bloom all Summer in hanging baskets and vases or on trellises; 10 ft. Pkt.

Barclayana. Blue. 69880 10

" **alba.** White. 69890 10

purpurea grandiflora. Purple. 69910 10

Mixed. 69920 10



Mignonette Machet

MELILOTUS Cærulea. Ornamental, hardy Pkt.
annual like the Lotus; sweet-scented, blue
flowers; good for bees; 2 ft. 69970 5

†**MELOTHRIA scabra.** An interesting, half-hardy annual tropical vine with light blue flowers; 10 ft. 69990 10

MESEMBRYANTHEMUM. These beautiful, half-hardy annuals flower profusely in dry and sunny situations; fine as edging plants; 6 in.

cordifolium variegatum. Rose; cream foliage; very dwarf; a fine variety for carpet bedding or for edging and for rock work. 70020 15 Pkt.

crystallinum (Ice Plant). White flowers; succulent leaves covered with sparkling ice-like globules. 67040 5

tricolor. Crimson, pink and white; fine in dry situations. 70030 5

MIGNONETTE (*Reseda odorata*). Seed of this popular, hardy annual can be sown at any time, and if successive sowings are made its fragrant, modest-colored flowers may be gathered outdoors until November. Sow in pots or boxes under glass in February or March, and thin or pot off the seedlings to make good plants for bedding out in April. Sow outdoors in rows about April 1st, and again regularly at intervals of about three weeks till August, a row or two at a time for succession. The July sowing will make good Winter-flowering plants; 1 ft.

Reseda odorata grandiflora (Sweet Mignonette). 30c. 70060 5 Pkt.

Allen's Defiance. Spikes of great length; very fragrant and fine for cutting; 1½ ft ¼ oz. 25c., oz. 75c. 70070 10

Crimson Giant (ameliorata). Red flowered. 70080 5

Golden Queen. Golden yellow. 70120 10

Goliath. Red; enormous spikes; striking; very sweet scented. 70130 15

Machet, Dwarf. Deep red. 70140 10

" " **Golden.** 70160 10

" " **Ruby** (Rubin). Very fine strain of Machet, with coppery scarlet flowers. 70170 10

" " **White Pearl.** The best white variety. 70180 15

Miles' Spiral. 1 ft. 70190 5

- MIMOSA pudica** (Sensitive Plant). A curious and interesting half-hardy annual, with pinkish flowers; leaves close when touched; 1½ ft. **70280** 10 Pkt.
- †**MIMULUS** (Monkey Flower). Showy, half-hardy perennial; do best in a moist situation in the garden; easily grown; 1 ft. Pkt.
- cardinalis**. Scarlet **70300** 10
- cupreus, Mixed** **70310** 10
- moschatus** (Musk Plant). Yellow; fragrant foliage **70320** 10
- “ **compactus**. Yellow dwarf. **70330** 15
- tigrinus**. Tigered and spotted varieties. **70350** 10
- “ **grandiflorus** (Queen's Prize). Large-flowered variety of above **70360** 25
- ‡**MINA lobata**. A beautiful and free-flowering, half-hardy annual climber, with scarlet-and-yellow flowers; 15 ft. **70380** 10
- MIRABILIS**. See *Four O'Clock*.
- ‡**MOMORDICA**. Handsome and ornamental, climbing, half-hardy annuals with yellow flowers; fine for covering rockwork, trellises, etc.; 10 ft. Pkt.
- Balsamina** (Balsam Apple). Apple-shaped fruit; glossy, green foliage, often used for its medicinal qualities **70420** 5
- Charantia** (Balsam Pear). Pear-shaped fruit; heavy green foliage **70430** 5
- Elaterium** (Squirting Cucumber). The oblong fruits eject their seed at the slightest touch **70440** 5
- MONK'S HOOD**. See *Aconitum*.
- MONKEY FLOWER**. See *Mimulus*.
- MOONFLOWER**. See *Ipomœa mexicana*.
- MORNING-GLORY**. See *Convolvulus* and *Ipomœa*.
- MOURNING BRIDE**. See *Scabiosa*.
- MUSK PLANT**. See *Mimulus moschatus*.
- MYOSOTIS**. See *Forget-me-not*.

Nasturtium (*Tropæolum Nanum*)

Nasturtium

We do not sell less than
one ounce of any one
kind by weight

A marvelous range of new colors has been developed in this favorite flower which, for three or four months of the season, makes a better display than almost any other plant. No other hardy annual will produce such a lavish profusion of flowers for so long a time with the same small outlay of time and labor. The maximum of bloom is produced on thin soils, and never flags through the hottest weather. In soils too rich, leaves predominate, and the plants are apt to rot off in wet weather, especially if standing too close.

For the Celebrated Lobb's
Climbing Varieties, see
next page

NASTURTIUM

Continued

DWARF or TOM THUMB (*Tropæolum nan-um*).

All 30c. per oz., except quoted otherwise.

These have a neat, compact habit and attractive foliage; they bloom in two months from sowing, and most profusely the whole season; 1 ft. Pkt.

Beauty. Yellow and scarlet.....	70600	10
Bronze-color. Distinct	70610	10
Chameleon. Mottled crimson, bronze and yellow; very fine.....	70620	10
Crystal Palace Gem. Yellow and carmine.....	70640	10
Deep scarlet	70645	10
Empress of India. Deep crimson; fine dark foliage.....	70650	10
Golden Cloth. Golden yellow leaves; scarlet flowers.....	70660	10
Golden King. Golden yellow.....	70670	10
King of Tom Thumbs. Scarlet; fine color.....	70680	10
King Theodore. Black, velvety; darkest of all.....	70690	10
Queen of Tom Thumb. (Original Queen.) Brilliant crimson with white veined variegated-leaved foliage.....	70725	10
Mixed. Splendid range of colors of variegated-leaved sorts.....	70760	10
Ruby King. Ruby-red; large flowers; dark-leaved; fine and very profuse.....	70780	10
Vesuvius. Salmon-rose; extra large flowers in profusion; fine.....	70790	10
White, or Pearl (Moonlight).....	70800	10
Yellow. Very fine.....	70810	10
Mixed, Golden Leaved Sorts	70820	10
“ Ivy Leaved	70822	10
“ All Sorts. Per oz. 20c.; ¼ lb. 60c., ½ lb., \$1.10.; 1 lb., \$2.00.....	70840	10

TALL or CLIMBING (*Tropæolum majus*)

Besides their ordinary garden use for trailing over fences, trellises, stone walls, etc., these can also be grown as pot plants for Winter flowering, as screens, or as trailers for hanging baskets and vases; 8 to 12 ft.

	Oz.	Pkt.
Chameleon. Various colors.....	70910	20 10
Dark Crimson	70920	20 10
Edward Otto. Brownish lilac.....	70940	20 10
hemisphaericum. Orange.....	70970	20 10
King Theodore. Black.....	70990	20 10
Pearl (Moonlight). Whitish.....	71010	20 10
Scarlet	71020	20 10
Scheuerianum, Spotted	71030	20 10
“ coccineum. Scarlet striped.....	71040	20 10
Sunlight (Dunnett's Orange). Rich golden yellow; flowers nearly 3 inches across.....	71070	20 10
Vesuvius. Large flowers; salmon; dark-leaved.....	71080	20 10

TALL or CLIMBING—Continued

(*Tropæolum majus*)

	Oz.	Pkt.
Yellow (Luteum)	71090	20 10
Variegated-leaved, Mixed. Beautifully variegated foliage; distinct and charming.....	71110	20 10
Ivy Leaved, Tall Mixed	71115	20 10
Fine Mixed. ¼ lb., 55c.; ½ lb., \$1.00; 1 lb., \$1.75.....	71120	20 10

LOBB'S CLIMBING (*Tropæolum Lobbianum*).

This class is remarkable for the intensely brilliant colors of its flowers. In moderately rich soil they climb high and bloom brilliantly. Average height, 6 ft. Oz. Pkt.

Asa Gray. Yellowish white, handsome flowers.....	71160	10 5
atropurpureum. Dark purple; dark-leaved.....	71170	10 5



[*Tropæolum Lobbianum*]

LOBB'S CLIMBING NASTURTIUM—Continued

Chaixianum. Yellow, spotted red.	Oz.	Pkt.
71180	10	5
Blood-red	71190	10 5
Crystal Palace. Scarlet; large flowers; fine foliage.....	71200	10 5
Firefly. Dark orange-yellow, spotted bright scarlet; dark-leaved...	71210	10 5
fulgens (Brilliant). Bright scarlet; dark-leaved.....	71220	10 5
Geant des Batailles. Sulphur and red.....	71230	10 5
Golden Queen. Fine yellow; contrasts effectively with foliage..	71240	10 5
Ivy-leaved Scarlet. Dark leaves, like ivy; deep scarlet flowers..	71250	10 5
Ivy-leaved, Mixed	71260	10 5
Lilliput, Baby Rose. White and soft pink. A splendid variety....	71270	10 5
Lilliput, Snow Queen. Cream-white, very delicate tint....	71290	10 5
Lily Schmidt (Victoria). Scarlet.	71280	10 5
Lucifer. Dark scarlet; dark leaves.	71300	10 5
Spitfire. Brilliant scarlet. Very fine.	71310	10 5
Queen Wilhelmina. Queen of the Lobb varieties. The foliage is veined and marbled white, setting off the rich rosy scarlet flowers to great advantage. One of the most effective of the list.....	71320	10 5
Madame Gunther Hybrids. A French strain noted for wide range of colors.....	71330	10 5
fimbriatum, Mixed. Fringed sorts, mixed. $\frac{1}{4}$ lb. 55c., $\frac{1}{2}$ lb. \$1.00, lb. \$1.75.....	71340	10 5
Finest Mixture. $\frac{1}{4}$ lb. 35c., $\frac{1}{2}$ lb. 65c., lb. \$1.25.....	71350	10 5

NEMESIA. Very pretty and neat-flowering hard annual for edgings, attractive, bright-colored flowers; 1 ft.

compacta alba. White Gem. White; attractive fresh green foliage.	Pkt.
71460	10
" cœrulea. Blue Gem. Blue flowers borne in the greatest profusion.....	71470 10
strumosa Suttonii grandiflora. Many rich and rare colors; flowers large; foliage beautiful.....	71480 25

NEMOPHILA. Very pretty, dwarf-growing, hardy annuals of easy culture; continuous bloomers; cup-shaped flowers of brightest colors. Good

NEMOPHILA—Continued

in pots, edgings, rockeries or beds; moist soil and partial shade is favorable for them; 1 ft.

atomaria. White and purple.....	71500	Pkt. 5
crambeoides. Pale blue.....	71510	5
discoidalis. Black-brown, white-margined.	71520	5
insignis. Sky-blue.....	71530	5
" alba. White.....	71540	5
" marginata. Blue, mottled white	71550	5
maculata. Lilac-white, brown-spotted.	71560	5
Mixed.....oz. 30c...	71580	5

NICOTIANA. Species of tobacco. Showy and free-blooming half-hardy annuals; great garden favorites; in flower all Summer; tubular-shaped flowers; 3 ft.

affinis. White; very fragrant.....	71650	Pkt. 5
" hybrida. Beautiful shades, mixed.	71660	10
Sanderæ Hybrids. Many brilliant colors.	71680	10
" Purple carmine	71685	10
sylvestris. Large clusters of white flowers, sweet-scented; 4 ft.....	71690	10

NIEREMBERGIA. Pretty half-hardy perennials of slender growth that bloom freely the first year from seed; cup-shaped flowers. Fine for edgings or hanging-baskets; 1 ft.

gracilis. Lilac and white.....	71710	Pkt. 10
frutescens. White, tinted with lilac..	71720	10

NIGELLA. See *Love-in-a-Mist*.

NOLANA. When in flower these hardy annuals are very showy, and are fine for the garden border; of trailing habit; 1 ft.

atriplicifolia. Blue.....	71750	Pkt. 5
" grandiflora alba. White large flowered.....	71760	5
Mixed	71780	5

NYCTERINIA. Pretty half-hardy annuals, forming dwarf, compact plants; excellent for beds and borders; 9 in.

capensis. White; fragrant in evening.	71810	Pkt. 10
selaginoides. White, flushed lilac; graceful.....	71820	10

ONOTHERA. See *Evening Primrose*.

PEONIA. Among hardy perennial plants none are more prized than the Peonies with their large and handsome blooms; 2 to 3 ft.

officinalis. Red; single flowered.....	71960	Pkt. 5
chinensis, Mixed. Fine double varieties.	71970	10



Pansy, Thorburn Superb

PANSY (*Viola tricolor*; Heartsease)

Our strains have never been excelled

The Pansy is a plant that we all delight to grow in plentiful supply for flowers all the year. For very early outdoor bedding the seed is sown from August to October, in a cold-frame, or in rich, moist garden beds, from which the plants can be transferred to a cold-frame, setting them 2 to 3 in. apart each way before severe Winter weather begins. In Spring three-fourths of them can be lifted out for bedding and the rest left to bloom in the frame. For Winter blooming in a frame set the plants about twice as far apart, and thin out half of them in the Spring. Cover the blooming plants with sashes, adding a covering of matting or straw in very cold weather. In mild weather remove the mats and tilt the sashes to admit light, heat and fresh air. In outdoor beds, raised a few inches above the ground, with a mulch of dry leaves and some brush to hold them in place, Pansies will often Winter nicely and bloom until Midsummer, when a relay of young, vigorous plants should be ready to replace them. Spring sowings should be made early so as to secure good flowers during the early rains. Seed sown in a cool, moist place in June and July, and well tended, will give good flowering plants for Fall. If they come into bloom in the heat of the Summer, the flowers may be small at first, but, as the weather becomes cooler they will increase in size and beauty, and make a glorious show in the garden. Through Summer heat the flowers are finer in a somewhat shaded place, but in almost any situation good Pansy seed will give fine flowers in Spring and Fall. Early Fall sowings give the finest flowers in Spring, and a bed of Pansies is one of the most beautiful sights a garden can show. *The higher-priced sorts produce the largest flowers and the most brilliant colors. This should be borne in mind when ordering.*

We do not sell less than ¼ ounce of a kind by weight

	¼ Oz.	Oz.	Pkt.
Thorburn Superb. The richest and most choicely varied mixture possible. It produces only the finest colors, largest flowers and most beautiful forms. 72030	\$2 25	\$8 00	25
Bugnot Superb Blotched. An exceedingly large, three-blotched strain, with upper petals finely lined; great diversity of finest colors. 72040	2 00	7 00	25
Cassier, Finest Mixed. Flowers of grand size, beautifully spotted. 72050	2 00	7 00	25
Masterpiece. Curled, wavy petals; splendid colors; distinct. 72060	1 50	5 00	25
Madam Perret. A splendid giant-flowered strain comprising all shades of red from light rose to dark purple, some of them finely striped. 72080	1 25	4 00	25

PANSY—Continued

	$\frac{1}{4}$ Oz.	Oz.	Pkt.
Parisienne, Mixed. Handsome, large-flowering strain.....	72120	1 50	5 00
Fine Large English. All colors mixed.....	72130	75	2 50
French. Large flowers, fine mixed.....	72135	1 00	3 50
Mixed. Ordinary strain.....	72140	65	2 00
Azure Blue. Very fine color.....	72160	1 25	4 00
Black Blue. Dark velvety blue.....	72170	1 25	4 00
Black (Faust; King of the Blacks). Almost coal black.....	72180	1 25	4 00
Bronze. Golden bronze.....	72190	1 25	4 00
Cardinal. Brilliant red; very fine.....	72200	1 00	3 50
Coquette de Poissy. Distinct mauve, shading to white on petals.....	72210	1 25	4 00
Dark Blue	72215	1 00	3 50
Pale Bright Blue. Splendid; very showy.....	72240	1 00	3 50
Fairy Queen. Light blue, with white border.....	72250	1 25	4 00
Fire King	72270	75	2 50
Golden Queen. Pure Yellow (Yellow Gem).....	72290	1 25	4 00
Light Blue. Lovely sky blue.....	72360	1 00	3 50
Lord Beaconsfield. Deep purple violet, shading to light blue.....	72310	1 25	4 00
Meteor. Bright yellow and brown, attractively blotched and margined.....	72320	1 00	3 50
Odier, Five-blotched, Improved. Extra choice strain.....	72330	2 00	7 00
President Carnot. Pure white petals, each with a deep blotch.....	72360	1 25	4 00
Snow Queen (Candidissima). Pure satiny white.....	72390	85	3 00
White, with black center. Very showy.....	72410	1 25	4 00
Yellow, with Black Center. Splendid.....	72420	1 25	4 00
Yellow, Golden, without eye, pure yellow.....	72435	1 00	3 50
TRIMARDEAU GIANT. This strain has remarkably large flowers, carried well above their leaves, and generally marked with large blotches; plants are extra vigorous and compact.			
Giant Adonis. Light blue; white margin; splendid.....	72480	1 25	4 00
“ Azure Blue (Light Blue). Pure color.....	72500	1 25	4 00
“ Hortensia, Red. Splendid.....	72530	1 00	3 50
“ Indigo Blue. Very rich color.....	72540	1 00	3 50
“ Lord Beaconsfield. Lavender and purple.....	72550	1 25	4 00
“ White	72590	1 00	3 50
“ White, with Dark Eye	72600	1 00	3 50
“ Yellow. Dark center.....	72610	1 00	3 50
“ Pure Yellow (Golden Crest).....	72620	1 25	4 00
“ Mixed	72660	1 00	3 50

NEW EARLY BLOOMING HARDY PANSIES

This new type of pansy is valuable on account of its hardiness and earliness. If given slight protection they will be found perfectly hardy in this latitude and even further north, beginning to bloom about the end of March. Flowers are very large and have a sweet perfume.

	Pkt.
Celestial Queen. Beautiful light blue with yellow eye.....	72670 10
Ice King. Silvery white with dark blue blotches.....	72675 10
March Beauty. Fine dark velvety blue with yellow eye.....	72680 10
Winter Sun. Rich golden yellow with maroon blotches.....	72685 10
Hymalis Mixed	72690 10

Choice Collections of Specially Selected Giant Pansies, or Heartsease—

	Each Collection
8 varieties.....	72705 \$1 75
6 varieties.....	72715 1 40

PARIS DAISY. See *Chrysanthemum frutescens*.

†PASSIFLORA (Passion Flower).	Pkt.
cærulea (hhP). Blue.....	72780 10
incarnata (hhP). Pink.....	72810 10

PEAS (Sweet Peas). See page 74.

PELARGONIUM (gP). Beautiful and well-known plants for greenhouse and house culture. Popularly called “Lady Washington Geraniums”; 2 ft.

Show Varieties, Large flowered, Mixed.
72840 50

Odier (Blotched), **Superb Mixed**.... **72850** 50

PENTSTEMON. Beautiful herbaceous perennials; very hardy and free flowering; fine for beds and borders or rock gardens; excellent cut-flowers.

antirrhinoides. Lemon yellow; $1\frac{1}{2}$ ft.
72870 25

centranthifolius. Bright scarlet; 2 ft.
72880 25

†Hartwegii grandiflorus, Mixed. Large-flowered varieties; most brilliant colors; $2\frac{1}{2}$ ft..... **72910** 10

Murrayanus grandiflorus. Scarlet shades; 3 ft..... **72920** 10

Mixed Large-flowered Varieties. 3 ft.
72930 10



Petunia, Thorburn's Century Prize

***PERILLA.** An ornamental-leaved, half-hardy annual; for ribbon-gardening and beds; resembles the Coleus; $1\frac{1}{2}$ to 2 ft.

***nankinensis.** Dark, bronzy purple foliage..... **72950** 5 Pkt.

*** " laciniatis.** Foliage extra dark purple; beautiful. **72960** 5

PETUNIA HYBRIDA ^(hhA). _{Once}

fairly started, Petunias grow almost as easily as weeds and furnish a glorious succession of bloom from early Summer until frost. The large-flowered strains are very beautiful and of almost endless variety. Seed of the Double and Giant-flowered Petunias is made expensive by the great amount of labor involved in hand-fertilization, and it is well to handle seed and tiny seedlings with some care. Sow in hotbed, coldframes or in boxes of fine soil in the sunny windows of a warm room in April or May, and transplant about 1 ft. apart in garden beds. Seed of the double varieties has not so much vitality as that of single sorts and needs a little more care in watering to be sure of germination. We have no better plants than the petunias for beds and masses, borders, window-boxes, baskets and vases. They will grow in almost any soil and bloom profusely through long droughts. The newer varieties are of brilliant colors. *The highest priced sorts produce the finest and handsomest flowers, and those we offer are from the most carefully selected strains, saved at great expense. Apparently similar sorts offered at lower prices are not to be compared with those we offer.* Average height, $1\frac{1}{2}$ ft.

PETUNIA HYBRIDA—Continued

SINGLE LARGE-FLOWERED. These have flowers 4 or more in. across. Our strains are superb and the collections offered contain only the finest varieties.

Crimson Giant. Great flowers of deepest crimson..... **72990** 25 Pkt.

Purple King. Royal in color and size. **73000** 25

Rose. Brilliant rose; a charming shade. **73010** 50

superbissima. Mixed. Large, yellow-throated varieties; they make a brilliant show in the garden..... **73030** 50

White. Clear, paper-white flowers of unusual size..... **73350** 25

FRINGED, LARGE FLOWERING. These have deeply cut and fluted margins.

Crimson. A very rich color..... **73390** 25

Ruffled Giants. Extra-large flowers, beautifully ruffled, fluted and fringed. **73400** 50

Thorburn's Century Prize. An unrivaled strain of fringed, ruffled, giant-flowered sorts in most beautiful colors. Very valuable..... **73410** 50

Perfection Mixed. Choicest fringed sorts..... **73440** 25

Giant Kermisina or Midnight..... **73450** 50

PETUNIA—Continued

DOUBLE LARGE FLOWERING. Our seed will produce flowers large, fragrant, elegantly formed and beautiful either for house, garden or conservatory. *Only a small proportion of the double strains bear double flowers. The reason of this is the fact that the seed must be selected from single flowers, the double ones not producing seed. The single flowers must be pollinated with pollen from the double ones.* Cuttings may be made from double-flowered plants and inserted in light, sandy loam for rooting, thus increasing the percentage of double-flowering plants.

Double Large-flowering. Mixed...	73470	50
" Fringed Crimson. Gorgeous colors; extra large flowers...	73480	75
" Fringed Heliotrope. Mauve and heliotrope colorings.....	73490	75
" Fringed Perfection, Mixed. Flowers large and much be-ruffled.....	73510	75

SINGLE BEDDING VARIETIES. Smaller-flowered sorts, found most valuable for beds and masses; 1 ft.

Countess of Ellesmere. Dark rose, with fine white throat.....	73540	10
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PETUNIA—Continued

Howard's Star. Rich crimson; distinct white star in center; very showy....	73550	10
Rosy Morn. Bright, rosy pink, with white throat; very charming, compact, and free flowering; for bedding.....	73560	15
venosa. Variously colored, beautifully veined.....	73570	10
White. Pure white; compact grower...	73580	10
Inimitable Dwarf. Mixed. Compact grower, star-shaped flowers.	73585	10
" Mixed. Striped and spotted.	73590	10
Mixed Single. Fine colors.		
$\frac{1}{4}$ oz. 50c., oz. \$1.50...	73600	10

PHACELIA. Showy, hardy annuals of easy culture, doing best in a sunny situation; bell-shaped flowers; excellent for bees.

campanularia. Rich, deep blue; 9 in.	73690	5
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PHLOX DRUMMONDII

(Flame Flower.) The hardy annual Phloxes are dazzling in effect, particularly so when sown in masses or ribbon beds of contrasting colors. Few flowers are so easy to grow from seed, so pretty and compact in habit, so quick to bloom, or give such a brilliant display of color for so little cost and care. There are few desirable colors beyond their range, and if given good soil and plenty of water, they will furnish a long supply of delicate flowers. For pot culture, as trailers, and as an undergrowth for tall, bare-stemmed plants they are also valuable. The first sowings should be made as soon as the frost is out of the ground in Spring, later ones in May, either where the plants are to bloom, or in a seed-bed, as the Phlox transplants readily. In transplanting set the taller kinds about a foot apart; if planted too thickly they suffer from mildew. Cutting away the flowers and seed-pods makes the plants more bushy and compact, and lengthens their blooming time. Average height, 1 ft.

GRANDIFLORA. This section has beautiful, round-petaled flowers, larger than in the older sorts; showy and constant, blooming in the greatest profusion from early Summer to frost. Our strain is far superior to that ordinarily sold.

Alba. Pure white flowers borne in profusion all Summer ..	73770	10
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Phlox Drummondii, Assorted

PHLOX Drummondii Grandiflora—Continued	Pkt.
Alba oculata. White, with violet eye. 73780	10
atropurpurea. Dark purple.....	73790 10
Chamois Rose. A soft shade.....	73800 10
coccinea. Large; brilliant scarlet; very free flowering.....	73810 10
Crimson. Bright color.....	73820 10
Isabellina. Yellow.....	73830 10
kermesina splendens. Vivid crimson; extra-large flowers.....	73840 10
rosea. Rose.....	73850 10
stellata splendens. Star-like; crimson. 73860	10
Mixed. Splendid, large-flowering sorts. ¼ oz., 50c.; oz., \$1.50..	73870 10

DWARF VARIETIES. Plants of this charming section grow only 6 to 8 in. high and form dense masses of bloom all Summer. They are especially useful for beds, edgings, pots, etc.

Chamois Rose. Very fine.....	73950 Pkt. 15
Fireball. Flame red; fine for pots and for edging.....	73960 Pkt. 15



Dianthus Plumarius

PHLOX Drummondii—Continued	Pkt.
Snowball. Pure white; fine for pots...	73980 15
grandiflora nana compacta. Mixed.	74010 10

STAR PHLOX—
cuspidata. Star shaped; many colors. 74050 10

PERENNIAL PHLOX. This hardy sort makes bushes about 3 ft. high bearing large heads of finely colored flowers.

decussata. Large-flowered Hybrids,	Pkt.
Mixed.....	74110 15

†**PHYSALIS Francheti** (Chinese Lantern Plant). A splendid hardy perennial, very ornamental; has large orange fruits which, dried, are beautiful in Winter bouquets; 2 ft..... 74180 10

PHYSOSTEGIA (Obedient Plant). A valuable, Summer-flowering, hardy perennial border plant; delicate, white flowers on long stems; good for cutting; 3 ft.

grandiflora virginica. Rosy pink...	74190 Pkt. 25
“ “ alba.....	74200 25

PICOTEE (Picotee Pink). These beautiful greenhouse varieties have richly colored edged flowers and are finely perfumed; very attractive; 1½ ft.

White Ground. Colored edges.....	74230 Pkt. 50
Yellow Ground. Very desirable.....	74240 50

Extra Fine, Mixed. Show varieties..	74250 Pkt. 50
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See, also, *Carnation* and *Pinks*.

PINKS (Dianthus). In this large and greatly varied genus are some of our most beautiful and best-loved flowers, unsurpassed for color and fragrance. They are hardy biennials that bloom finely the first season, remaining green all Winter and blooming the next year also, if lightly protected. Old plants flower the earliest, but as young ones give the largest, finest flowers, sowings are made every year. Seed can be sown under glass in the Spring, or in an open, sheltered bed. The seedlings are easily transplanted and should stand 8 to 12 in. apart; dwarf ones about 6 in. If especially large, brilliant flowers are desired a bed of well-mixed turfy loam, leaf-mold and well decayed manure should be prepared for them. Average height, 1 ft.

CHINENSIS (China or Indian Pinks). The flowers of all are double and showy.

Double White China Pink.....	74280 Pkt. 5
“ Mixed China Pinks. All best Colors.	
¼ oz., 25.; oz., 80c.....	74290 5

HEDEWIGII (Japan Pinks). Unusually large and brilliant; often oddly edged, striped and ringed.

Single, The Bride (Little Gem). White, with purple center.....	74320 Pkt. 10
“ Crimson Belle. Flowers large and handsome: dark red: on long, stiff stems.....	74330 10

PINKS, Heddewigli—Continued

Pkt.

- Single, Eastern Queen.** Rose-colored flowers, 2 to 4 in. across; finely striped and stained.....**74340** 10
- " **Queen of Holland.** Splendid: white.....**74350** 10
- " **Mixed.**
 $\frac{1}{4}$ oz. 25c., oz. 75c.....**74360** 5
- " **Mixed, Giant Flowered.**.....**74370** 10
- " **mixed nobilis** (Royal Pink). Large, frilled and fringed flowers of a glowing blood-red, shadowing to carmine and pink and even white; vigorous and tall-growing; abundant, continuous bloomer; fine flower for cutting.
74380 15
- Double, Mixed.** A splendid assortment.
 $\frac{1}{4}$ oz. 40c., oz. \$1.25.....**74385** 10
- " **diadematus fl. pl.** (Diadem Pink). Double; magnificent in color and variety.....**74390** 10
- " **Fireball.** Brilliant scarlet; very compact and floriferous vines; for massing.....**74400** 10
- " **Archduke Francis Ferdinand.** Double lilac flowers with deep black zone.....**74395** 10
- " **Mourning Pink.** Very large, double flowers of blackish crimson, fringed white; very effective, and a handsome cut-flower.....**74410** 10

LACINIATUS, mirabilis, Single, Mixed.

- Quite distinct, narrow foliage; on long stems; fine for cutting.....**74430** 10
- " **Fireball, fl. pl.**.....**74435** 10
- " **Oriental Beauty.** Petals wide, crinkled, richly marked with pink, white, etc.**74440** 10
- " **punctatus.** Dark-shaded Princess Pink. Quite peculiar colors, such as purplish violet, blood-red, dark salmon, etc.....**74450** 15
- " **Salmon Queen.** Beautiful rosy salmon; handsome single flowers.....**74460** 10
- " **Snowball.** Large; double; white.....**74470** 10
- " **Single, Mixed.** Fringed flowers of all colors. $\frac{1}{4}$ oz. 50c., oz. \$1.50.....**74500** 10
- " **Double, Mixed.**
 $\frac{1}{4}$ oz. 50c.....**74510** 10
- " **Fringed Double Mixed.**
74515 10

IMPERIALIS FL. PL. (Double Imperial Pink). Robust, bushy grower, with large, double flowers.

Pkt.

- Double, Mixed.**.....**74530** 10
- " **Dark Red.** A deep, rich color.**74550** 10
- " **Dwarf White.** Great snowy flowers; grows 9 inches high....**74570** 15

PINKS—Continued

PLUMARIUS (Sweet May Pinks). These are fine, fragrant, hardy perennials of the old-time gardens, still reckoned among the most beautiful for massing and cutting.

Pheasant's Eye. Pretty fringed flowers. Pkt.
74600 5

scoticus (Double Scotch Pink). A series of exquisite colors; *ours is the finest strain.*
74620 50

semperflorens (Perpetual Pink). Double, semi-double and single; of various colors.
74630 15

Single Pinks, Mixed. $\frac{1}{4}$ oz. 30c., oz. 85c.
74650 10

Double Dwarf Mixed......**74670** 10

Double and Semi-Double Grass Pinks. Pretty flowers of delicate colors....**74680** 15

Double Mixed. Extra fine.....**74690** 10

PLATYCODON (Wahlenbergia; Large Chinese Bellflower). Handsome, hardy perennials that do best in light, dry situations; bush growth; bear large, bell-shaped flowers in great profusion. See cut. Pkt.

grandiflorum. Deep blue; 2 ft.....**74800** 10

" **album.** White; 2 ft....**74810** 10

See also *Campanula*.

POLEMONIUM. See *Jacob's Ladder*.

†**POLYANTHUS** (*Primula elatior*). Fine Spring-blooming and free-flowering, hardy perennials; alike suitable to pot or garden culture; 9 in. Pkt.

Mixed......**74900** 10

Large Flowered, Finest Mixed. Fine collection.....**74910** 25

Gold-laced. Very attractive and showy.
74920 25



Platycodon

POLYGONUM ORIENTALE "Lady's Thumb." Hardy annual, pink or greenish purple flowers.....**74930** 15

POPPY (Papaver). Before Tulips are fairly gone our gardens begin to be gay with poppies. Few flowers have the same grace of stem, airiness of poise and delicacy of tissue. For beds and borders with a background of green there is nothing finer; some sorts are admirable for naturalizing in open wooded grounds; others, like the Shirley, are beautiful for cutting. A sandy loam suits Poppies best, and, as their strong tap-roots are difficult to transplant, it is well to sow seed where the plants are to bloom. Sowings made in Fall and at intervals in Spring will provide a long succession of flowers. Sow thinly, covering very lightly, and thin the plants to stand about a foot apart. The best plants are those grown from early sowings while the soil is cool and moist.

PERENNIAL VARIETIES. Tall, large flowered and showy; average height, 2 to 4 ft.

bracteatum. Glowing scarlet; on long stems; 3 ft.....**74950** 5

Pkt.

POPPY, Perennial Varieties—Continued

Pkt.

orientale. Enormous flowers of deep, flashing scarlet, with black spots in center; entirely hardy anywhere; fine for cutting; 3 ft.....**74960** 10

orientale. Brilliant. Vivid scarlet; beautiful.....**74970** 10

" **Carnea**.....**74980** 10

" **Mauve**.....**74990** 10

" **Mixed Hybrids.** Finest shades.....**75010** 10

nudicaule (Iceland Poppy). These dwarf, bright yellow Poppies form one of the chief attractions of the garden through several months. They are most beautiful when grown in masses from seed sown every year; if sown very early they bloom same season; 1 ft.....**75030** 10

" **aurantiacum coccineum.** Orange red. All of this class have crimped petals and peculiar grace.....**75040** 10

" **Album.** Pure white.....**75050** 10

" **Mixed**.....**75060** 10

ANNUAL VARIETIES. This section includes fine double and single flowers of greatly varying sizes, self-colored and daintily edged. All are easily cultivated and greatly admired. Average height, 3 ft.

Pkt.

Thorburn Giant White. White flowers of grand form and size, with silky petals; 3 to 4 ft.....**75090** 5

Danebrog. Large; single; scarlet, with white cross at base of petals..**75100** 5

English Scarlet Field Poppy. oz. 50c.....**75110** 5

Flag of Truce. Pure white; large and showy flowers.....**75120** 5

Maid of the Mist. Pure white; single; very large; deeply fringed; 3 to 4 ft.....**75130** 5

Mephisto rosea. Fine single...**75145** 5

Miss Sherwood. Large; single; satiny white, with upper half of petals chamois rose.....**75150** 5

Shirley Best Mixed. Indescribably bright, dainty and gauzy; a favorite for cutting. (See Illustration page 117).....oz. 50c...**75160** 5

glaucum (Tulip Poppy). Striking, Tulip-shaped flowers of intensely brilliant scarlet; dwarf.....**75180** 10

Single Mixed.....oz. 25c...**75215** 5

Double American Flag. White, bordered with scarlet, and exceedingly brilliant flowers....**75220** 5



Orientale Poppy

POPPY, Annual Varieties—Continued

Pkt.

Double Cardinal. The immense scarlet flowers last unusually well. 75230	5
" Cardinal, Mixed 75240	5
" Carnation-flowered Hybrid, White Swan. Pure white. 75250	5
" Carnation-flowered, Mixed. Very double, fringed. oz., 30c... 75260	5
" Mikado. Large, white flowers, attractively fringed with rose. 75270	5
" Pæony-flowered, Dwarf, Fireball. Deep scarlet; very large flowering. 75280	5
" Pæony-flowered, Snowball. Pure white; very large flowering. 75290	5
" Pæony-flowered, Dwarf, Mixed Hybrids. Hybrids of compact growth; splendid..... 75300	5
" Pæony-flowered, Mixed. Large, handsome flowers of many colors. 75310	5
" Ranunculus-flowered, Mixed. Flowers small, finely formed, double..... oz., 40c... 75320	5
" Somniferum (Opium Poppy). oz., 50c... 75322	5
" Mixed, All Sorts. oz., 25c... 75340	5

PORTULACA This charming, little hardy annual is unrivaled for brilliancy among plants of low growth, and, although it flourishes under almost all conditions, hot sun and a light, sandy soil suit it best. Nothing is prettier for beds, edgings, rockwork, etc. As an undergrowth for taller plants it is also valuable. Through the driest, hottest seasons it flourishes amazingly, carpeting the ground with a mat of succulent foliage that, in the forenoon, is hidden by gayest of flowers. The seed does not germinate until hot weather, and should be sown late. This plant requires little care and can be transplanted in full flower. Average height, 6 in.

SINGLE VARIETIES. Each strong plant will cover a space of about 2 ft. in diameter.

albiflora. Pure white..... 75420	Pkt. 10
aurea. Deep, golden yellow..... 75430	10
Carnation. Striped rose..... 75440	10
rosea. Rich rose..... 75450	10
splendens. Crimson..... 75460	10
Thellussoni. Scarlet..... 75470	10
Thorburni. Beautiful, bright yellow. 75480	10
Mixed ¼ oz., 25c.; oz., 75c... 75490	10



Shirley Poppies,

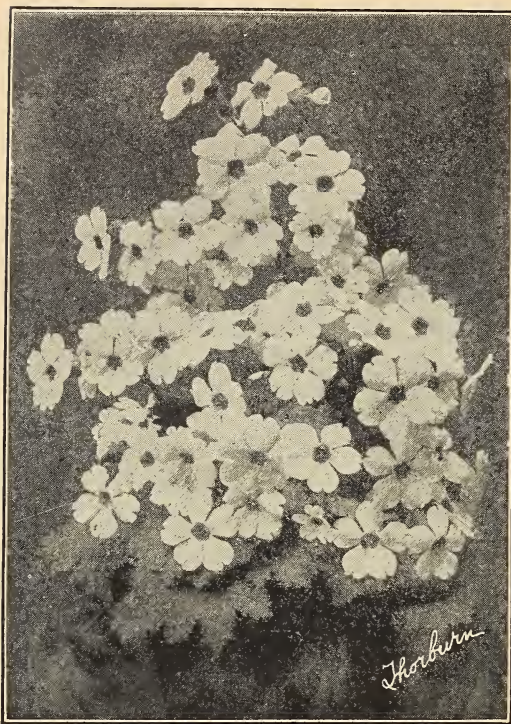
PORTULACA—Continued

DOUBLE VARIETIES. These flowers are so full and perfect as to resemble tiny Roses. Toward the close of the season they will increase in size and beauty. As the full, double flowers do not produce seed, it must be saved from the semi-double flowers growing with the full-doubles. The product of that seed will produce many single flowers. As these bloom earlier they can be pulled out like weeds. When the full-doubles appear cuttings can be made from them and the bed extended indefinitely with only full-double flowers. *Our strains must not be confused with the ordinary, cheap seed usually sold.*

Double Bright Red 75510	Pkt. 20
" Kermesina Crimson..... 75515	20
" Purpurea. Purple..... 75518	20
" Rose 75530	20
" Salmon 75550	20
" Scarlet 75560	20
" Sulphur Yellow 75570	20
" White 75580	20
" Yellow 75590	20
" Mixed. Grown from cuttings; a splendid assortment of colors. 75600	20

POTENTILLA. Handsome and brilliant in flower are these desirable, hardy perennials. Foliage ornamental; bloom all Summer; of the easiest cultivation; 2 ft.

Mixed. Brilliant colors..... 75690	Pkt. 10
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Primula Stellata

PRIMULA

CHINENSIS (Chinese Primrose) (gP).

Primula, or Chinese Primrose, stands in the first rank among greenhouse plants, and is fine for Winter and Spring blooming. It is free flowering and is especially valuable for cutflowers and for house and window culture. A cool place suits it best. Sow the seeds in drills in a light, rich soil, in shallow boxes, at any time from the middle of March to the end of May; the earliest sown seed will naturally produce the earliest bloom. Cover the seed about an eighth of an inch and press the soil on them with a board or the bottom of a p^{ct}. Water moderately; avoid forcing the seed. The plants must be well ventilated, well watered, and slightly shaded. Average height, 9 in.

	Pkt.
fimbriata alba. White; fringed.....	75720 25
“ alba magnifica. Pure white; fringed; extra choice.....	75730 35
“ Bright Rose. Dainty fringed flowers.....	75740 35
“ coccinea. Bright red; fringed.	75750 35
“ cærulea. Blue; fringed....	75760 35
“ kermesina splendens. Crimson; fine shade; fringed...	75770 35
“ rubra. Red; gracefully fringed flowers.....	75780 25
“ Extra Fine Mixed. Fringed.	75790 25

	Pkt.
PRIMULA. Chinensis—Continued	
fimbriata filicifolia. All these are fringed and have fern-like foliage.	
alba. White.....	75810 50
Mixed	75830 50
“ plena. Beautifully fringed, double flowers.	
rubra. Red.....	75870 50
alba. White.....	75880 50
Mixed	75890 50
stellata, Mixed (Star Primulas). Very floriferous.....	75910 50

OBCONICA (gP). For open border, also do well in the house window-garden. Continuous and free bloomers during the Winter months.

	Pkt.
grandiflora alba. White.....	76000 25
“ carminea. Carmine...	76010 25
“ hybrida, Mixed	76030 50
“ gigantea kermesina, carmine. Red.....	76080 50
“ gigantea rose	76110 50
“ gigantea, Mixed. Giant flowering.....	76120 50
(See illustration page 119)	

malacoides (gP). Dainty, soft lilac pink; fine for pot culture; 18 in.	76150 25
“ alba. Fine white.....	76160 25

HARDY VARIETIES. The hardy Primroses are among the most prized of our Spring-blooming plants. A slight protection, while not always needed, will be found beneficial; 1 to 1½ ft.

	Pkt.
japonica (Japanese Primrose) (hP). Purple; called the “Queen of Primroses”; 1½ to 2 ft.....	76220 10
“ hybrida, Mixed (hP). From a fine collection.....	76230 25
vulgaris (hP) (English Primrose). Yellow, fragrant; a favorite variety; 6 in....	76250 10

See, also, *Auricula*, *Cowslip* and *Polyanthus*.

PRIMROSE (Evening Primrose). The *Oenothera*, or Evening Primrose, blooms all Summer very freely; the bright, Poppy-like flowers open early every evening and last well into the next day; of the easiest culture in sunny situations.

	Pkt.
Oenothera Drummondii (hA). Light yellow; 1½ ft.....	76310 5
“ Lamareckiana (thB). Large yellow flowers; 3 ft.....	76320 10
“ rosea (mexicana) (hA). Bright rose; 6 in.....	76330 10
“ Mixed Annual Varieties.	76370 5

PUERARIA Thunbergiana. See *Kudzu Vine*.



Primula Obconica grandiflora gigantea—See page 118

PYRETHRUM Showy, hardy perennials growing 2 ft. in height, with most brilliant and lasting flowers. The dwarf Golden Feather is the well-known variety used for carpet bedding, edgings and borders.

atrosanguineum.	Red and dark red shades.....	Pkt. 76390	10
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roseum hybridum, Single, Mixed.		76400	10
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"	hybridum, Double, Mixed.	76410	25
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†	parthenifolium aureum	(Golden Feather). Yellow, fern-like leaves; fine for edgings; 6 to 8 in....	76460	5
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"	aureum selaginoides.	Bright yellow leaves; very compact....	76470	10
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Tchihatchewii.	White and yellow; for poor soils.....	76490	10
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REHMANNIA angulata.	Splendid, half hardy, herbaceous perennials, with beautiful, large, rosy purple flowers, similar to those of <i>Incarvillea Delavayi</i> . For pot culture or outdoors in sheltered situations; 3 ft.....	76530	25
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RHODANTHE. Beautiful, delicate-looking Everlasting flowers, much prized for Winter bouquets. These half-hardy annuals are also valuable garden plants. Glaucous gray foliage; 1½ ft. Pkt.

maculata.	Rose with dark center....	76570	10
"	alba. Pure white.....	76580	10
"	Mixed	76590	10
Manglesii.	Rose; very fine.....	76600	10

RHODODENDRON arboreum hybridum.
The well-known, hardy evergreen shrub.
Mixed varieties; 10 ft..... Pkt. 76640 25

RICINUS (Castor - Oil Plant). Picturesquely showy and imposing, the Ricinus gives to the garden magnificent semi-tropical effects. Grown as a specimen it makes a perfect pyramid of gigantic leaves; a dozen plants in a large bed show a glorious mound of glistening colors and may be admired from a long distance; planted thickly it soon forms a handsome screen or hedge; the lower-growing dark-leaved sorts are beautiful for dotting here and there among Cannas, scarlet Pelargoniums, etc. Tall varieties grow from 8 to 10 ft. high, with leaves several feet across and beautifully lobed. Half-hardy annuals. Pkt.

borboniensis arboreus.	Green foliage; 15 ft.....	76680	5
Cambodgensis.	Glistening dark maroon, stems black; 5 ft.....	76690	5

RICINUS—Continued

	Pkt.
Gibsoni. Dark red; 5 ft.....	5
hybridus Panormitanus. Cross between Cambodgensis and zanzibariensis. Huge, dark brown leaves, blue-powdered stems; upright habit.....	10
sanguineus. Red stems and seeds; 6 ft.	5
zanzibariensis. Distinct and handsome.	
.....	5
zanzibariensis, Finest Mixed. 8 to 10 ft.....	5
.....oz. 35c...	5
Mixed. Fine sorts.....	5
collections of Ricinus, including 6 vars. choicest sorts.....	25

ROCKET (Sweet Rocket; Hesperis). Spring flowering, hardy herbaceous perennials; fragrant; easily grown in light soil; transplant frequently; very free blooming.

	Pkt.
matronalis. Purple; 3 ft.	
..... $\frac{1}{4}$ oz. 20c., oz. 50c...	5
" alba. White; fine cut-flower;	
.....3 ft.....	5
" Mixed	5

ROMNEYA Coulteri (California Tree, or Matilija Poppy). This beautiful, half-hardy perennial Poppy should have a sheltered position in the garden. Fine, fragrant, white flowers; 4 ft.....

ROSA polyantha nana multiflora (†hP). Dwarf, compact bushes covered with small, single and double blossoms in various colors. These Roses flower the first season from seed; 2 ft.....



Salpiglossis

ROSE CAMPION. See *Agrostemma coronaria*.

ROSE OF HEAVEN. See *Agrostemma Cali-rosa*.

RUDBECKIA (Coneflower). Attractive and compact-growing plants, most suitable for beds and borders or clumps among shrubs; showy, large, yellow flowers with dark central cones; easily grown.

amplexicaulis (hA). Pure golden yellow;	Pkt.
.....2½ ft.....	5

bicolor superba (hA). Golden yellow; long stems; 2 ft.....	5
---	---

fulgida variabilis (hP). Various yellow shades; 2½ ft.....	10
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Neumannii (hP). Vivid orange yellow; 3 ft.....	10
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hirta hybrids, new. Hardy, dwarf perennial, with double, semi-double and single flowers of all shades; red, mahogany, chocolate, with purple or yellow centers.

.....77040 25

RUMEX hymenosepalus. An ornamental hardy perennial from California, with long gray-green leaves; also known as pie-plant there, as the leaf stalks are used the same as Rhubarb. Of economic value as well, as its roots produce tannin. It is of easy cultivation, fine erect grower; 3 ft.

.....77060 10

SALPIGLOSSIS (Painted Tongue). These showy, half-hardy annuals bear beautiful, funnel-shaped flowers having dark veins on a ground which varies from white to crimson, yellow, orange, etc., and intermediate shades. They are easily grown, require a light, rich, sandy loam and will respond to liberal treatment. Bloom from late Summer until frost; 2 ft.

grandiflora, Extra Choice, Mixed.	Pkt.
A fine assortment of colors.....	10

" superbissima (Emperor), Mixed. Finest strain of very large flowers.....	15
--	----

Tall Mixed $\frac{1}{4}$ oz. 35c...	10
--	----

Dwarf Mixed	10
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SALVIA (Flowering Sage). The *Salvia splendens* is a standard bedding plant that keeps the garden bright with color until late in Autumn. For pot culture, for cutting and for borders, etc., it is very valuable. In this climate sow seed in window-boxes or

SALVIA—Continued

frames in March or April, and set the plants outdoors the latter part of May; or sow outdoors not before June 1, and protect from heavy rains and strong winds. The plants grow and bloom profusely in any light, rich soil. Both the tender and hardy perennial sorts bloom the first year, and all are treated as annuals.

argentea (hP). Silver leaved; flowers white; blooms in Spring; 3 ft. **77300** Pkt. 5

farinacea (hA). Light blue flowers in great abundance; good for cutting; forms a neat bush; 3 ft. **77320** 10

patens. A handsome, tender, perennial, with erect spikes of rich, blue flowers; fine for borders or the greenhouse; 2 ft. ... **77330** 25



Salvia Bonfire

SPLENDENS (Scarlet Sage) (hhP). These are the well-known bedders, single plants of which carry many long, flaming flower spikes open at one time, keeping up the display until frost.

grandiflora, Scarlet. A rich-flowered bedder; long spikes; 3 ft. **77360** Pkt. 10

Ball of Fire. Very dwarf and compact, ball-shaped variety, especially suitable for pot culture. The plants are about 2 ft. high to the top of the flower spikes, and about the same in diameter. Color dull red; large spikes, similar to No. 74410. **77390** 25

Bonfire. Our well-known, compact Salvia—the freest blooming of all, seemingly on fire all the time, with dense, flaming scarlet spikes; 2½ ft. **77400** 10

Early Dwarf Zurich. Grows only 12 to 15 in. high, with many fine, erect, slender spikes to each plant, borne well above its handsome foliage. Color brilliant scarlet; splendid bedding variety; earliest of all. **77410** 25

SALVIA Splendens—Continued

Pkt.

Lord Fauntleroy. Only 18 in. high; very compact, with the brilliant scarlet flower spikes standing clear above the foliage. Fine for bedding in masses or for borders around beds of taller sorts; also fine for pots. Very early flowering. **77420** 25

Scarlet Dragon. A superb bedding plant for Summer and Autumn; flowers are nearly twice the size of the old Scarlet Sage; when full grown the plants form bushes about 3 ft. in height, and the same in diameter, and are a mass of bloom. The brilliant scarlet effect is gorgeous. **77430** 25

Silverspot. Rich, green leaves elegantly spotted with yellow. The intense, bright scarlet flowers are large and lavishly borne; neat and compact; 2½ ft. **77440** 25

SANVITALIA procumbens fl. pl. Beautiful, dwarf-growing, hardy annual for beds or borders; bright yellow, double flowers; blooms all Summer; 6 in. **77490** 10

SAPONARIA. Pretty, dwarf bedding plants, especially adapted for edgings and borders; long and profuse bloomers; 1 ft.

calabrica (hA). Red. **77510** Pkt. 5

“ **alba** (hA). White. **77520** 5

“ **Scarlet Queen** (hA). Very brilliant. **77530** 5

“ **mixed**. **77535** 5

ocymoides (hP). Rose-colored flowers; trailing; blooms early; fine for rockwork; 6 in. **77540** 10

SCABIOSA (Mourning Bride; Scabious, etc.)

Well-established garden favorites. They grow about 2 ft. high, and flower through the summer until frost. The flowers are borne on long stems and last a long time when cut. Fine for beds or borders. Sow seed outdoors in Spring when danger from frost is past.

caucasica (Blue Bonnet). (hP). This hardy perennial should be in every garden. The flowers are large and semi-double, of pale lavender color, growing on long stems; splendid for cutting. **77590** Pkt. 10

HARDY ANNUALS—

candidissima fl. pl. (Snow ball). Double; white. **77600** 5

minor aurea fl. pl. Double; golden yellow. **77610** 5

Tall Black Purple. **77620** 5

“ **Flesh Color**. **77630** 5

“ **Scarlet**. **77640** 5

“ **Yellow**. **77645** 5

SCABIOSA—Hardy Annuals—Continued

Pkt.

atropurpurea maxima. Very double, mixed.....	15
Mixed, Tall. Large flowers of bright colors.....	5
Mixed Dwarf	5
SCHIZANTHUS. Very beautiful and showy, hardy annuals, fine for beds and borders in the Summer garden; grown in pots in early Spring in the greenhouse they become elegant foliage plants, with masses of flowers; $\frac{1}{2}$ to 2 ft.	
papilionaceus. Purple, yellow and crim-son.....	5
pinnatus, Mixed. Floriferous.....	5
retusus. Red; splendid.....	5
“ albus. White, inside yellow; very fine.....	5
Wisetonensis. Light shades; long and profuse blooming; fine pot-plant.....	25
Mixed	5

SEDUM (Stonecrop). Showy and useful little plants for carpet bedding, edgings, rockwork, stone walls, etc. Will do well in any soil and dry situations.

SEDUM—Continued

Pkt.

cæruleum (hA). Blue; 4 in.....	77910	10
Mixed (hP). 9 in.....	77930	10
Maximowiczii. Golden yellow; 1 ft.....	77920	10
SENECIO. See <i>Jacobæa</i> .		
SENSITIVE PLANT. See <i>Mimosa pudica</i> .		
SILENE (Catchfly). Bright-colored and free-flowering hardy annuals, suitable for rock-work or garden beds and borders, blooming all Summer; succeed finely in any light, loamy soil; 1 ft.		Pkt.
Armeria. Red.....	77960	5
“ alba. White.....	77970	5
pendula. Red.....	77980	5
“ alba. White.....	77985	5
“ Double Rose	77990	5
“ Bonnettii. Dark purple; dark stems.....	78010	5
“ Mixed	78020	5
†SMILAX (Myrsiphyllum asparagoides). A well-known greenhouse climber, with small, dark-green foliage; of great value in floral work; 8 ft.....	78050	10

SNAPDRAGON (*Antirrhinum*).

The Snapdragon is one of our finest perennials, flowering the first year from seed. Its bright-colored, curiously formed flowers always excite interest. The rich spikes are beautiful for cutting, and keep fresh a long time. Flower profusely through Summer until frost. For early flowers, sow under glass in February or March, and transplant into beds of warm, dry soil moderately enriched. The Snapdragon is treated as an annual and the seed sown every year. Average height, 2 ft.

TALL VARIETIES—

Pkt.

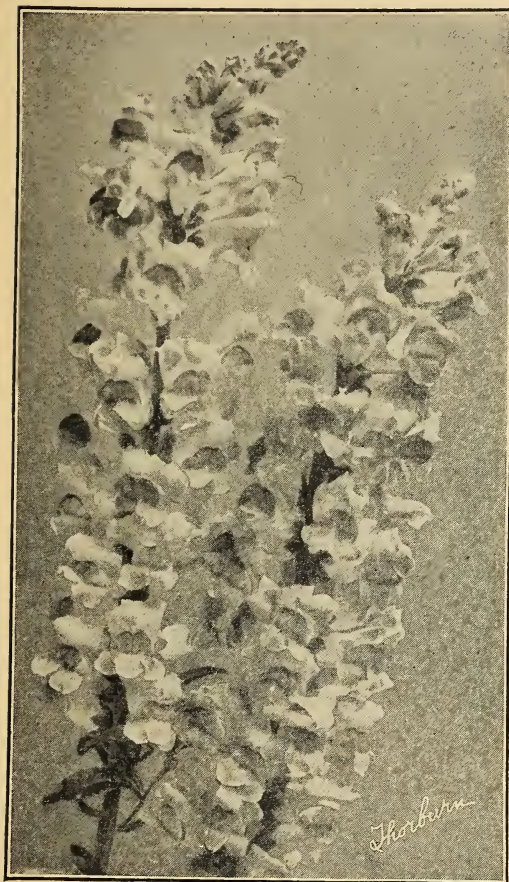
album. White.....	78080	5
atrococcineum. Dark scarlet.....	78090	5
Coral Red	78095	10
Cottage Maid. Handsome pale pink with white throat.....	78098	10
Delicate Rose	78100	10
Fairy Queen (Firefly). Orange, white throat.....	78120	5
luteum. Yellow.....	78130	5
Mixed ... $\frac{1}{4}$ oz., 30c.; oz., \$1.00....	78160	5

TALL, LARGE-FLOWERING VARIETIES

Blood Red. Fine color.....	78170	10
Delilah. White and carmine.....	78180	10
Feltham Beauty. Long spikes of enormous deep rose-pink blooms with white center.....	78185	25
Firefly. Scarlet and white.....	78190	10
Galathee. Crimson and white.....	78200	10
Nelrose. Silvery pink, very long stems, fine for greenhouse.....	78205	30
Orange Beauty. Very large flowering, lovely orange, scarlet with gold tip.....	78208	25
Queen Victoria. Pure white.....	78210	10
Venus. Delicate pink, with white throat.....	78225	15
White. Beautiful for cutting.....	78230	10



Scabiosa



Snapdragon, Antirrhinum

SNAPDRAGON—Continued

- Yellow.** A pure, soft color.....78240 Pkt. 10
Large-flowered, Mixed. Fine.
 ¼ oz., 30c.; oz., \$1.00..78270 10

SEMI-DWARF VARIETIES. Plants of this section make excellent bedders, as they bloom extra profusely and are only about 15 in. high.

- Black Prince.** Nearly black.....78310 Pkt. 10
Bonfire. Lovely orange pink.....78320 15
Cottage Maid. Pale coral pink, white throat.....78330 15
Crimson King. Bright crimson; a deeper color than Scarlet King.....78340 15
Golden Beauty. Large sturdy spikes, rich golden yellow.....78345 25
Mauve Beauty. Lovely rose mauve. 78355 25
Queen of the North. Pure white; small leaved.....78360 10
Rose Dore. Pretty, self-colored salmon rose.....78370 25
Silver Pink. Splendid semi-dwarf variety; delicate silver-pink flowers, fine for greenhouses.....78375 25
Scarlet King. Brilliant scarlet; tall spikes of flowers.....78380 15

SNAPDRAGON—Continued

Pkt.

- Fine Semi-dwarf Mixed**.....78400 10
Tom Thumb, Finest Mixed. Very dwarf strain; 6 in.....78410 10
Collection of Snapdragon, including—
 6 vars Finest Tall.....78450 30

SOLANUM (gP). The Solanums are very ornamental, fruit-bearing plants, and thrive best in light, rich soil. Fine for Winter decoration in the house or conservatory. If used in Summer garden give very warm situation; 1 to 3 ft.

Pkt.

- capsicastrum** (Jerusalem Cherry), Scarlet, globular berries; fine for pots; 1 to 1½ ft.....78480 10
giganteum. Small, round, red berries; large, handsome variety.....78490 10
†Seaforthianum. Beautiful climber; egg-shaped, yellowish red fruit; 8 ft.....78510 10
Warscewiczii. Pale yellow fruit; smooth and shining; handsome sort.....78520 10

STACHYS lanata (Lamb's Ears). Ornamental hardy perennial, with silvery white, woolly leaves; used for edgings and borders; easily grown; 1½ ft.....78600 5

STATICE (Sea Lavender). Pretty plants for the Summer garden in beds or borders; good for rockwork also; much valued when dried as Everlastings for Winter bouquets; 1 to 2 ft.

Pkt.

- Bonduellii** (hA). Golden yellow.....78630 5
sinuata (hA). Blue; very fine.....78640 5
 " **candidissima** (hA). White; fine for edging.....78650 5
incana hybrida nana (hP). Dwarf; mixed colors.....78670 5
Perennial Sorts Mixed.....78680 5
psuedo armeria.....78685 5

STEVIA serrata (†gP). Greenhouse perennial; bears very elegant sprays of tiny white, fragrant flowers which are splendid for cutting; 2 ft.....78740 10

STOCKS (Matthiola). Stocks have good habit, fine leaves, beautiful and fragrant flowers, a long season of bloom and adaptability to many conditions of culture. They are unsurpassed for bedding, edging, pot culture and for cutting. For fine early flowers sow under glass in March or April, transplanting the seedlings when an inch high into other pots or boxes, or into fine soil spread over some discarded hotbed. In May transfer to garden beds of deep, rich soil, setting the plants a foot apart. Transplanting several times in the early stages of growth tends to make them more dwarf and compact. For later flowers sowings may be made in the open ground in May. If plants that begin to bloom late are carefully potted in Fall they will flower finely all Winter in a house that is tolerably cool and moist. Average height, 1 to 1½ ft

Pkt.

TEN WEEKS. Half-hardy annuals.

- Large-flowering Dwarf Pyramidal.**
Finest Mixture.....78840 25

STOCKS—Continued

Pkt.

Dwarf Large-flowering. Long, splendid spikes; large, double flowers.	
Bright Red	78870 10
Blood Red. Very rich.....	78880 10
Carmine	78890 10
Rose. Very dainty, light color.....	78940 10
Snow White	78950 10
Violet	78960 10
Mixed	78980 10

DRESDEN PERPETUAL OR BRANCHING.

Pkt.

“Cut-and-Come Again” (“Princess Alice”), **White.** Profuse and perpetual-blooming; double, white flowers, fine for cutting..... **79000** 25

Snow White..... **79005** 25

Empress Augusta Victoria. Delicate silvery lilac flowers in magnificent trusses; of true pyramidal growth; height 24 in..... **79010** 25

Mixed..... **79020** 25

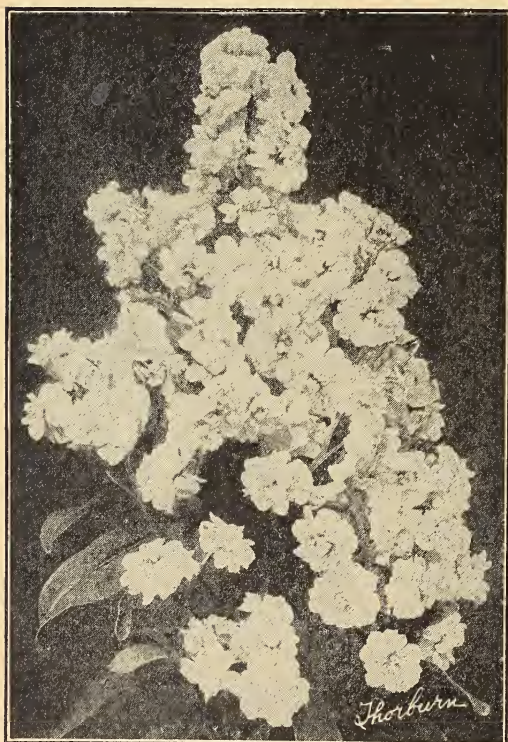
GOOD MIXED STOCKS..... **79070** 5

WINTER “NICE” VARIETIES

LARGE-FLOWERING—

Beauty of Nice. Flesh-color; extra-large flowers..... **79320** 25

Monte Carlo. Pure yellow..... **79330** 25



Stocks, Beauty of Nice

“NICE” STOCKS—Continued

Pkt.

Pure White..... **79340** 25

Queen Alexandra. Rosy lilac..... **79350** 25

Mixed..... **79370** 25

STOKESIA (Cornflower Aster). This popular hardy perennial bears, all Summer, large, attractive flowers resembling semi-double Asters fine for cut-flowers; 2 ft.

Pkt.

Cyanea. Lavender-blue; handsome... **79610** 10

STONECROP. See *Sedum*

SUMMER CYPRESS. See *Kochia trichophylla*.

SUNFLOWER (*Helianthus*). Very

stately and decorative hardy annuals, with great masses of yellow flowers. Among shrubbery, and for backgrounds and screens, nothing could be finer. Their long stems and wonderful lasting qualities make them valuable as cut-flowers. They are said to be good for absorbing the miasma of low grounds. Plant the seed in the open garden in Spring, and thin the plants to stand 3 to 4 ft. apart.

Pkt.

argyrophyllus (Texas Silver Queen). Has handsome silvery foliage and a profusion of small, elegant, single flowers; 4 ft. **79670** 5

cucumerifolius. Of pyramidal growth; small, bright orange, single flowers; 3 ft. **79680** 5

“ **Stella.** Handsome; large-flowered; primrose-yellow..... **79700** 10

“ **Single Fine Mixed.**
¼ oz. 25c., oz. 75c. **79730** 10

Double California. Dark yellow; 5 ft. **79740** 5

“ **Dwarf.** Beautiful, Dahlia-like flowers, 3 in. across..... **79750** 5

“ **Dwarf Variegated-leaves.** Foliage spotted with yellow; flowers bright yellow. Very fine..... **79760** 5

“ **Globe-flowered.** Ball-shaped; blooms late; 3 ft..... **79770** 5

“ **Green-centered.** Odd and attractive; 3 ft..... **79780** 5

“ **Chrysanthemum-flowered** **79785** 5

Macrophyllus giganteus, huge leaves and yellow flowers..... **79800** 5

Primrose-colored. Graceful flowers of a lovely color; beautiful for cutting; 5 ft. **79810** 5

Sutton's New Red. Of freely branching habit, producing numerous well-shaped, dark centered, brilliant flowers, banded with bright chestnut red, merging to yellow at tips of the petals..... **79815** 10

SWEET PEAS (*Lathyrus odoratus*). See page 74.

SWEET SULTAN. See *Centaurea moschata*.

Sweet William (*Dianthus Barbatous*)**SWEET WILLIAM** (*Dianthus Barbatous*).

The splendid old-fashioned hardy biennial, producing large heads of beautifully colored, sweet-scented flowers in abundance; easily grown, flowering the second year from seed; 1½ ft.

Pkt.

Single Auricula-flowered oculatus marginatus (Hunt's Perfection). Various shades, with white eye and white bordered.....**79920** 5

" **Pink Beauty (roseus)**. Rosy chamois.....**79940** 15

" **Scarlet Beauty**. Brilliant scarlet; very fine.....**79950** 15

" **White**.....**79960** 5

" **Mixed**. ¼ oz., 20c; 1 oz., 50c.**79970** 5

Double Mixed.....**80010** 10

Giant Double and Single Mixed. ¼ oz., 20c; 1 oz., 50c.....**80020** 10

TAGETES (hA). Pretty, dwarf-growing, single-flowering Marigolds; fine for beds and especially so for edgings.

Pkt.

lucida. Yellow; fragrant; good for cutting; 1 ft.....**80090** 10

signata pumila. Bright golden yellow; bushy habit; fine for edgings; 8 in....**80100** 10

See, also, *Marigolds*.

TASSEL FLOWER. See *Cacalia*.

TECOMA Smithii (gP). Splendid greenhouse shrub; winter blooming; fine for pots; large heads of innumerable flowers, lemon with orange; 6 ft.....**80130** 25

THERMOPSIS Carolinana. Pretty yellow pea-shaped flower.....**80135** 15

†**THUNBERGIA alata, Mixed**. A very pretty rapidly-growing, tender perennial climber that is usually grown as an annual. Prized for window-boxes, vases, hanging-baskets, trellises, etc.; 6 ft.....**80160** 10

TOAD FLAX. See *Linaria*.

TORENIA. Beautiful tender annuals that, started early in the Spring in heat, will bloom continuously all Summer until frost; fine for vases, baskets and the Summer garden; 10 in.

Pkt.

Fournieri. Sky-blue, with purple spots and yellow throat.....**80190** 25

" **alba, "White Wings."** Pure white with yellow throat.
80200 25

" **Fine Mixed**. Very choice.**80210** 25

†**TRACHELIUM caeruleum** (hhP). An attractive late-flowering perennial suited to culture as an annual; pale blue flowers; good in garden or greenhouse; 1 ft..**80240** 10

†**TRICHOSANTHES colubrina** (Snake Gourd, or Serpent Cucumber). Rapid-growing, climbing, half-hardy annual, with slender fruit, often 3 ft. long, turning carmine when ripe; 10 ft.....**80280** 5

See, also, *Cucumis* and *Gourds*.

TRITOMA (Red-Hot-Poker Plant). This splendid half-hardy perennial is also well known as Torch Lily; has gorgeous spikes of bloom easily grown; should be largely planted. Fine in late Summer and Fall. (see Cut, p. 126).

Pkt.

Uvaria grandiflora. Fiery orange flower-spikes, large and showy; 3 to 4 ft....**80330** 10

TROLLIUS Mixed Hybrids (Globe Flower). Desirable hardy perennial with large, buttercup-like blossoms; free-flowering through the early Summer; do well in any soil. Flowers vary from pale yellow to deep gold, bordering on vermillion; 1½ to 2 ft.....**80360** 10

TROPÆOLUM. See *Nasturtium*.

TROPÆOLEM canariense. See *Canary-Bird Flower*.



Tritoma—see page 125

†**VALERIANA (Valerian)**. Very handsome hardy perennials that have been too much neglected; bloom all Summer. Fine for borders, wild gardens and rockwork; of easiest culture; 2 ft.

	Pkt.
alba . White.....	80460 5
rubra . Red.....	80470 5
Mixed	80480 5

VENUS' LOOKING GLASS (Specularia). A pretty little hardy annual, blooming profusely in Spring and Summer, and desirable for edging flower-beds and borders; of easy culture; 9 in.

	Pkt.
Blue	80530 5
White	80550 5
Mixed	80560 5
grandiflora , Mixed. Large-flowered..	80570 10

VENUS' NAVELWORT (Cynoglossum linifolium). An elegant hardy annual for beds or edgings; of easiest culture; glaucous green leaves and white flowers; blooms all Summer; 10 in.....80590 15

VERBASCUM pannosum. A stately and decorative hardy perennial, with large, white, woolly leaves and splendid spikes of sulphur-yellow flowers; fine for back-grounds; 4 to 5 ft.....80610 10

VERBENA (hhA). In rich soil, single plants of this pretty annual creeper will carpet a space 3 to 4 ft. in diameter. For beds, borders, mounds, window-boxes, etc., it is particularly fine, and is frequently used as an undergrowth to tall plants like Lilies. Plants raised from seed are cheaper, more vigorous and produce more flowers than those grown from cuttings. For early Spring bloom, sow under glass in February, for later flowers sow in March or April. Soak the seed a few hours in tepid water and sow in boxes filled with light, rich soil; cover one-fourth of an inch deep, press down firmly and water sparingly. When the seedlings are about an inch high, transplant into other boxes. Use a liberal amount of manure in the beds, and set out 10 to 15 in. apart each way in May in a sunny situation. The plants bloom from early Summer until frost.

	Pkt.
hybrida auriculæflora . Brilliantly colored flowers of fine size, each with a large, white eye.....	80630 10
" Black-Blue, White Eye	80640 10
" candidissima . Large trusses of purest white flowers.....	80650 10
" cærulea . Bright blue in various shades.....	80660 10
" Defiance . Intensely brilliant scarlet; fine for bedding.....	80670 10
" italica striata . Brightly striped.	80680 10
" Scarlet . Different shades....	80690 10
" Yellow . Primrose-color....	80700 10
" Mixed . ¼ oz. 35c.....	80720 5
" Finest Mixed . Extra choice.	80730 10
" Grandiflora, Helen Willmott . Bright salmon-rose with white eye.....	80740 25
" Mammoth, Blue	80752 25
" " Pink.....	80754 25
" " Scarlet Defiance	80756 25
" " Striped.....	80757 25
" " White.....	80758 25
" " Yellow, lutea....	80759 25
" " Mixed . Plants and flowers are unusually large; extremely floriferous, and borne in large heads.	80760 10
" Improved Mammoth, Mixed Auricula-flowered . Best of all.	80770 25
Compacta lutescens . Light yellow..	80780 10
" atrosanguinea . Blood red.	80785 10
" erecta, Mixed	80790 10
erinoides . Small, violet; heavy bloomer; pretty.....	80810 10
alba	80820 10
venosa . Blue; fine for groups and for edgings.....	80830 10
citriodora (Lemon-scented Verbena). An attractive greenhouse shrub, grown for the delightful citron scent of its light green leaves.....	80840 10



Verbena Hybrida

VERONICA (Speedwell), **Mixed Perennial Species.** Splendid, hardy border plants of the easiest culture; bear bright-colored flowers all Summer; 1 to 2 ft. **80890** 10

†**VINCA** (Madagascar Periwinkle) (tP). Handsome, bushy bedding plants that flower luxuriantly and most profusely all Summer from seed sown in February or March in heat; fine also for pot culture in window-garden or greenhouse; 1 to 1½ ft.

	Pkt.
rosea. Red.....	80940 10
“ alba. White, with rose center; dainty flowers.....	80950 10
“ alba pura. Pure white; makes brilliant contrast with the dark green, shining foliage.....	80960 10
“ Mixed	80970 10

Delicata. Soft delicate shade of pink, very desirable for rockery and shrubbery borders; the plants are quite hardy. **80980** 15

VIOLET, Sweet Scented (*Viola odorata*) (hhP). Much prized for Spring blooming. All the varieties have great beauty, are very fragrant and quite hardy; 6 in. Violet seed takes a long time to germinate.

	Pkt.
Blue	81000 10
The Czar. Very large; dark blue.....	81010 10
White	81020 10

†**VIOLA cornuta** (Tufted Pansies) (hhP). Splendid free-blooming plants for partially shaded situations; with a little Winter protection will be permanent for years; bloom continually all the season until frost; 6 in.

	Pkt.
cornuta, Purple Queen	81040 10
“ White Perfection	81060 10
“ Mixed	81065 10
pedunculata (California Yellow Violet). 81070	25

VIRGINIAN STOCK (*Malcomia maritima*). Early and very free-flowering, dwarf, hardy annuals of easy culture; bright blossoms; most effective for edgings or beds; 1 ft.

	Pkt.
Crimson King. Very fine.....	81100 5
Red	81110 5
White	81120 5
Mixed	81130 5

VISCARIA. Abundant-blooming, hardy annuals, flowering all Summer until frost; very effective for massing in beds and borders; easily grown; 1 ft.

	Pkt.
elegans picta. Rose and scarlet....	81150 5
oculata. Rose.....	81160 5
“ alba. White.....	81170 5
“ candida. Pure white; fine.....	81180 10
“ cærulea. Sky blue, dark center. 81190	5
“ Mixed. Bright colors.....	81200 5

WALLFLOWER (*Cheiranthus Cheiri*). Well-known, half-hardy perennials of delightful fragrance, bearing in Spring and early Summer long spikes of bright flowers. Start the seed early in the season in heat, protect by cold-frames during the following Winter and plant out for bedding in Spring. Fine also for blooming in greenhouse; 2 ft.

SINGLE-FLOWERING VARIETIES— Pkt.

Dark Blood-red..... **81230** 10

Eastern Queen. Very distinct shade, bright chamois, changing to salmon red..... **81240** 10

Feltham Early. Large; brown-red; fine. **81250** 10

Golden King. Very large, golden yellow flower..... **81260** 10

Linnaeus. Fine; white..... **81265** 10

Rose Queen. A lovely terra-cotta pink. **81270** 10

Ruby Gem. Very rich ruby color... **81280** 10

Vesuvius. New. Orange, scarlet and bronze..... **81285** 25

White Dame. Large, creamy white flowers of dwarf, compact habit.... **81290** 10

Single-Flowering Dwarf Sorts, Mixed. **81300** 10

Fine Mixed. Very showy mixture... **81320** 5

ANNUAL, Mixed. This annual or extra-early flowering strain, if started early in heat, will bloom the same season; 1 to 1½ ft. **81340** 15

Early Paris Market. Golden yellow... **81350** 15

DOUBLE-FLOWERING VARIETIES—

Double Tall Branching, Mixed. 2 ft. **81370** 25

Double Dwarf Branching, Mixed. 1 ft. **81390** 25



Wallflower—see page 127

WHITLAVIA. Easily grown, hardy annuals of compact habit; excellent for beds or borders; bears in profusion all the season pretty, bell-shaped flowers; 1 ft.

	Pkt.
gloxinioides. Blue, with white throat. 81480	10
grandiflora. Blue.....81490	5
“ alba. White.....81500	5

***WIGANDIA** (hhP). Imposing decorative plants with very large and beautifully veined leaves; prized for subtropical gardening and groups on lawns. Start the seeds very early in the season in heat to produce good plants for Summer beds; 6 ft.

	Pkt.
caracasana. Grand foliage.....81530	10
Vigieri. Very large leaved.....81540	10

XERANTHEMUM. This well-known, hardy annual is one of the oldest and prettiest of the “Everlasting” flowers, and in Winter bouquets retain their color and form for years. Fine for beds and borders; in bloom all the season until frost; 1½ to 2 ft.

XERANTHEMUM—Continued

	Pkt.
Double Purple.....81570	10
“ Rose.....81580	10
“ White.....81590	10
“ Mixed.....81600	10
YUCCA filamentosa (Adam’s Needle). One of the best Summer ornamental, hardy perennial plants, when both foliage and bloom are considered; elegant spikes of creamy white, fragrant flowers; broad, sword-like leaves; 5 to 6 ft.....81650	10
gloriosa.....81660	10

ZINNIA (Youth and Old Age). Few flowers are so easily grown from seed or bloom so abundantly and continuously as this hardy annual. Sow the seed in the open ground early in Spring. From July until the first hard frost Zinnias are incomparably bright; the plants grow a foot or more in height and are covered with large, double flowers. Fine for beds and borders; in fact, in any location.

TALL MAMMOTH FLOWERING DOUBLE.

A distinct and splendid class of this ever-popular flower, producing extra large double blooms; 2½ ft.

	Pkt.
Black Knight.....81670	15
Crimson.....81680	15
Flesh-Color.....81690	15
Orange.....81693	15
Scarlet.....81695	15
Sulphur-Yellow.....91700	15
Violet.....91710	15
White.....81720	15
Mixed.....81730	15



Zinnias, Tall Mammoth Mixed

ZINNIA—Continued

TALL DOUBLE. For borders and groups;
2 ft. Pkt.

Crimson.....	81770	10
Flesh-Color.....	81780	10
Lilac.....	81790	10
Purple.....	81800	10
Rose.....	81810	10
Scarlet.....	81820	10
Striped.....	81830	10
Violet.....	81835	10
White.....	81840	10
Yellow, Sulphur.....	81850	10
" Golden.....	81860	10
Mixed.....	81890	10
" extra selected.....	81910	10

DWARF DOUBLE. More compact and of neater
habit than the tall varieties; 15 in. Pkt.

Bright Scarlet.....	81940	10
Canary.....	81945	10
Fireball.....	81955	10
Salmon.....	81970	10
White "Snowball".....	81980	10
Yellow, Golden.....	81990	10
Mixed.....	82020	5
Lilliput, Scarlet Gem.....	82050	10
" White.....	82060	10
Mixed Pompon.....	82090	10
Haageana, Double Mixed. 1½ ft.....	82110	10
Curled and Crested, Mixed. 2 ft.....	82130	10

MIXED ANNUAL FLOWER SEEDS

Bright colored, Summer-flowering, easily grown hardy annuals in the greatest variety for sowing broadcast.

Mixed Tall..... 82300 25 Oz.

Mixed Annual Japanese or Paradise Mixture. A fine mixture of over 50 intermediate annuals in splendid diversity of colors, especially suited for small gardens, composed of early flowering and late varieties, flowers all Summer..... 82345 25

MIXED PERENNIAL FLOWER SEEDS

Beautiful Mixture of hardy perennials, containing many choice varieties..... 82350 30 Oz.

For Choice COLLECTIONS of FLOWER SEEDS, see page 13.

PALM SEEDS

	100 seeds	
<i>Areca lutescens</i>	10 seeds, \$0.25	\$2.00
" <i>rubra</i>	10 " .25	2.00
<i>Brahea robusta</i> , (Wash- tonia).....	20 " .25	1.00
<i>Chamærops excelsa</i>	25 " .25	.50
<i>Cocos australis</i>	20 " .25	1.00
<i>campestris</i>	15 " .25	1.50
<i>Weddelliana</i>	10 " .25	3.00
<i>Corypha</i> (Livistonia) aus- tralis (Cabbage Palm).20	" .25	1.00
<i>Dracaena australis</i>	25 " Pkt. 1.00	
<i>indivisa</i>	25 " oz. 1.00	
<i>Draco</i>	30 seeds, .25	.50

	100 seeds	
<i>Kentia Belmoreana</i>	5 seeds, \$0.15	\$1.50
<i>Forsteriana</i>	15 " .25	1.50
<i>Latania borbonica</i>	oz. lb. 15 1.00	
<i>Musa Ensete</i> (Abyssinian Banana).....	15 seeds, .30	1.50
<i>Oreodoxia regia</i>	15 " .30	1.50
<i>Pandanus utilis</i> (Screw Pine).....	10 " .25	1.50
<i>Phoenix canariensis</i>.....	.50 " .25	.40
<i>dactylifera</i> (Date Palm).50	" .25	.40
<i>reclinata</i>	25 " .25	.75
<i>rupicola</i>	15 " .25	1.50
<i>tenuis</i>	50 " .25	.40
<i>Seaforthia elegans</i>	10 " .25	2.00

CYCAS REVOLUTA STEMS (SAGO PALM) per pound 25 cts.

We receive these throughout the year direct from Japan, in various sizes.

ORNAMENTAL GRASSES

The Ornamental Grasses are very attractive to use in mixed flower-beds or borders, and for grouping by themselves give fine effects. Many of them, if cut before they are entirely ripe, will be found very useful, when dried, in the formation of Winter bouquets, in connection with the "Everlastings."

Put up in Packets and Ounces only.

- *AGROSTIS** (Cloud Grass) (hA). Very fine for bases and bouquets.
- nebulosa**. Very delicate and graceful; Pkt. 18 in.....**82600** 10
- pulchella**. Good for bouquets; 1 ft..**82610** 10
- *ARUNDO** (Great Reed) (hP). Well adapted for large clumps; stately and ornamental; 10 ft.
- Donax foliis variegatis**. Green leaves Pkt. striped with white.....**82660** 10
- AVENA sterilis** (Animated Oats) (hA). Drooping, curious and very graceful; 2 ft.....**82680** 5
- BRIZA** (Quaking Grass) (hA). Well-known, graceful species; very fine for bouquets; 1 to 1½ ft. Pkt.
- gracilis**.....**82720** 5
- maxima**.....**82730** 5
- BROMUS** (hA). Fine varieties for large Winter bouquets; 2 to 2½ ft. Pkt.
- brizæformis**.....oz. 35c..**82770** 5
- CHRYSURUS cynosuroides** (hA). Pretty for edgings; silky plumes that become golden as they mature; 10 in.....**82840** 5
- COIX Lacrymæ** (Job's Tears) (hA). Seed resembles a tear-drop; fine for massing; 2 to 3 ft.....oz. 15c.; lb., \$1.00..**82860** 5
- FRAGROSTIS** (hA). Pretty Grasses growing a foot or more high, and characterized by their beautiful dancing spikelets; all are handsome for bouquets.
- elegans** (Love Grass) 1 ft...oz. 40c. **82980** 5
- †*ERIANTHUS Ravennæ** (Plume Grass) Pkt. (hP). Very stately and ornamental, fine, silvery plumes, splendid in lawn groups. Resembles closely the Pampas Grass; 6 to 8 ft.....**83010** 5
- *EULALIA** (hP). Among the most beautiful and ornamental of the tall-growing Grasses; 4 to 6 ft.
- japonica**. Long, dark green leaves; fine Pkt. for groups.....¼ oz., 25c..**83030** 10
- EULALIA—Continued** Pkt.
- japonica zebrina** (Zebra Grass). The dark green leaves are barred with creamy white; variegations run across foliage. oz., 75c..**83040** 10
- GYMNOTHRIX**. Curious and ornamental, single specimens are of striking effect; 3 feet.
- latifolia** (hP). Very ornamental; bears Pkt. nodding spikes.....**83140** 10
- *GYNERIUM** (Pampas Grass) (hhP). Noblest of the tall-growing, ornamental Grasses. Bears magnificent plumes; needs protection in Winter; 4 to 6 ft.
- argenteum**. Long, silvery white plumes; Pkt. splendid. ¼ oz., 25c..**83160** 10
- " **roseum**. Rose-colored plumes **83170** 10
- HORDEUM jubatum** (Squirrel-tail Grass) (hA). Bushy panicles; very effective for bouquets; 1½ to 2 ft.....**83210** 10
- JOB'S TEARS**. See *Coix Lacrymæ*.
- LAGURUS ovatus** (Hare's-tail Grass) (hA). Small, silvery gray plumes; good in dried bouquets; 1 ft.....oz., 40c..**83270** 5
- PANICUM sulcatum** (hP). Very showy; palm-like in form; 4 ft.....**83340** 10
- PENNISETUM** (hA). Very ornamental; fine for groups and bouquets.
- longistylum (villosum)**. Graceful, green- Pkt. ish white plumes; good in beds; 2 ft. oz., 40c..**83370** 5
- Rueppellianum**. Violet-purple plumes; fine for edging beds of tall plants like Cannas; 2 to 3 ft.....¼ oz., 25c..**83380** 5
- *STIPA** (hP). Popular and graceful species; splendid for bouquets; 2 ft. Pkt.
- elegantissima**. Very pretty plumes..**83460** 10
- pennata** (Feather Grass). Delicate, silvery white feathery plumes; a favorite sort. ¼ oz., 30c..**83470** 10
- ZEA gracillima variegata**.....**83550** 10
- " **Japan striped, Improved**.....**83560** 10
- " **gigantea quadricolor**.....**83570** 10

GLADIOLI

ALL EXTRA-SELECTED, LARGE BULBS, NO SECOND SIZE

If to be sent by mail, add postage at zone rates—10, 1 lb.; 100, 8 lbs.

Gladioli are very easily grown. Any good soil suits them. Plant the bulbs as soon as all danger from frost is past, about 3 inches deep and 7 or 8 inches apart. By planting at intervals up to the first of July, these fine flowers can be had in bloom all through the Summer and Fall—the later flowers being the best. About the end of October, when the leaves begin to wither, the bulbs should be taken up, dried in the open air, and then stored in a dry place, free from frost, for planting next Spring. It is a mistake to plant Gladioli without some suitable subject to hide the surrounding soil; to do this we suggest planting lower growing plants such as *Saponaria calabrica*, *Nigella Miss Jekyll*, *Violas* and *Dwarf Godetias*. Those marked with an asterisk (*) are used extensively for forcing.

DWARF GLADIOLI

Early flowering type of most exquisite tints and shades; fine for bedding.

* Cardinalis Blushing Bride. Beautiful ivory-white, with crimson flakes.....	10	100
“ Crimson Queen. Deep crimson.....	\$0 35	\$3 00
	40	3 50

* Cardinalis Peach Blossom. Beautiful rose.....	10	100
“ Queen of Holland. White with carmine blotch.....	\$0 35	\$3 00
“ Mixed	40	3 50
	30	2 50

THORBURN'S EXTRA-FINE MIXED HYBRIDS

(From our Trial Grounds)

Containing only finest named sorts in a wide range of colors and markings. 65 cts. per 10, \$4.50 per 100.

VARIOUS MIXED GLADIOLI

25 at 100 rate, 250 at 1000 rate



Mixed Varieties of Red and Scarlet. A splendid assortment of fine quality; large flowers.	10	100	1000
Mixed White Grounds, Extra. All extra large blooms.....	\$0 30	\$2 50	\$24 00
Mixed Striped and Variegated. Pleasing to the eye in the broadest sense. A charming lot.....	40	3 50	32 00
Mixed Pink and Rose. Colors vary from the most delicate pink to gaudy rose. Every one a vigorous grower.....	40	3 50	32 00
Mixed Yellow and Orange. No color shows up more charmingly either singly or in contrast with the more vivid shades	35	3 00	26 00
Mixed Gandavensis. Extra fine bulbs from the best varieties, a superb mixture of the various colors, in which no one color plays the predominating part. Very fine quality. Large size Corms.....	60	5 00	48 00
	35	3 00	28 00

Thorburn's Extra-Fine Mixed Hybrid Gladioli

VARIOUS MIXED GLADIOLI—Continued

Mixed Groff's Hybrid Seedlings.	10	100	1000
This mixture is the well-known and distinct race resembling the Lemoine Hybrids, but showing greater diversity of colors in flowers.....	\$0 30	\$2 50	\$24 00
Mixed Lemoine's. Their remarkably bright, rich colors and odd orchid-like markings account, in a way, for their being popularly known as the Butterfly Gladiola. A desirable sort. Large size Corms.....	35	3 00	26 00
Mixed Childsii. Grand flowers of large size, and beautifully colored. Large size Corms.....	40	3 50	30 00
Mixed Excelsior. Selected strain of Gandavensis seedlings, mostly light shades. Large size Corms.....	40	3 50	30 00
Mixed Nanceianus. Large, open-spreading flowers. Extra fine mixture.....	50	4 50	44 00

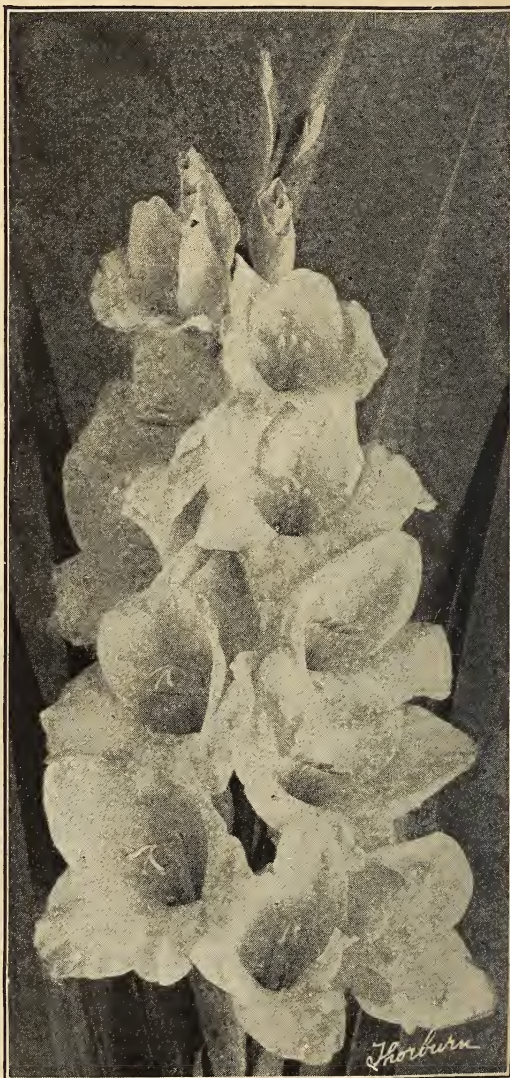
FINE NAMED HYBRID GLADIOLI

Not less than 10 of a kind, 25 at 100 rate except where quoted otherwise

Albion. A beautiful white variety, with a tinge of carmine deep in the center.....	10	100	
	\$0 60	\$5 00	
*America. A beautiful flesh pink, tinged with lavender. Very vigorous, with large, spreading blossoms on spikes 2 to 3 feet long. Extra large size Corms. Per 1000, \$40.00	50	4 50	
Attraction. A deep, rich crimson, with a center that shows prominent above all.....	45	4 00	
*Augusta. Pure white, with a lavender-tinted throat. A splendid sort. Extra large size Corms...	45	4 00	
Baron Hulot. (Lemoine.) Without a doubt the finest blue Gladiolus. It is a rich, deep color of an indigo shade.....	60	5 00	
*Brenchleyensis. A fine old vermillion scarlet variety. Extra large size Corms.....	50	4 50	
Dawn. Rose pink, large flowers, tall spike..... 15 cts. each	1 25	10 00	
Empress of India. Deep, velvety maroon.....	60	5 50	
Eugene Scribe. Very large and wide; tender rose, blazed carmine red. Exceptionally fine for florists' use.....	75	7 00	
Faust. Deep purplish carmine, with white markings on lower petals.	60	5 50	
F. L. Oakley. Bright scarlet-tinted salmon, with pure white center. A very fine show variety.....	45	4 00 ¹	
Glory of Brightwood. Scarlet with lemon throat.....	45	4 00	
Glory of Holland. Very fine white, tinted rose.....	60	5 00	

FINE NAMED HYBRID GLADIOLI—Continued

Golden West. Orange red, overlaid with gold; yellow blotch with red spots on lower petals; fine	10	1 00	
	\$0 75	\$6 00	
Halley. Large flowers of a lovely salmon pink, lower segments blotched yellow, with carmine markings. An excellent variety; early.....	50	4 50	
*Isaac Buchanan. Very fine yellow; large flowers..15 cts. each	1 00	8 00	
Jessie. (Lemoine.) Fine velvety red; long spike of flowers.....	40	3 50	
Klondyke. Light yellow, maroon blotches in throat.....	45	4 00	
Lamarek. (Lemoine.) Salmon, with crimson and yellow spots.	75	7 00	
Lily Lehman. Very fine, pure white, frilled edge, slightly tinted rose; large flower.....	60	5 00	



Augusta

FINE NAMED HYBRID GLADIOLI—Continued

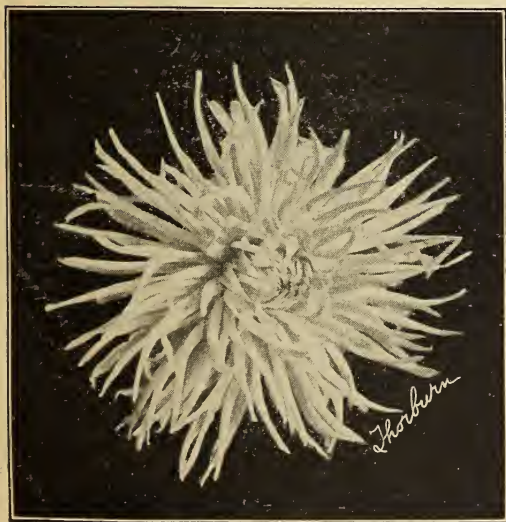
Little Violet. Compact spike of a pleasing lilac.....	10	100			
	20 cts. each	\$1 50	\$13 00		
Madame Lemolner. (Lemoine.) White, tinted lemon; large crimson blotch.....	50	4 50			
*May. A lovely, pure white, finely flaked rosy crimson.....	50	4 50			
Melrose. White flaked pink, bright crimson center; very large and fine.....	15 cts. each	1 40	12 00		
Mrs. Francis King. Light scarlet; very large flowers on a long spike.....	50	4 00			
Mrs. Frank Pendleton. (Kunderdi.) Very large, graceful blossoms of lovely, bright pink, with rich carmine blotches on the lower petals; very beautiful.	15 cts. each	1 00	9 00		
Mrs. W. N. Bird. Beautiful lilac-rose, crimson-white, mottling in throat, and carmine marks.	15 cts. each	1 25	10 00		
Nezinscott. Bright blood scarlet, with deep velvety crimson blotches and white mottlings.	15 cts. each	1 00	8 00		
Niagara. Soft primrose yellow, slightly tinged with rose pink in throat.....	75	7 00			
Panama. Beautiful, deep rose self; large flowers, fine spike.....	75	6 00			
Peace. Large flower, white, with lilac blotch on lower petal.....	75	7 00			
*Pink Beauty. Bright carmine rose, with darker blotch on lower petals; early; fine cut-flower...	10	100			
		\$0 60	\$5 50		
Pink Perfection. Soft, rosy pink, with white stripe in center of each petal; very beautiful.....	1 00	8 00			
Portland. Rosy red, penciled darker; mottled throat.....	75	7 00			
Princeps. Glowing crimson, with white flakes on lower petals. Extra large Corms.....	75	6 00			
Rosy Spray. White, beautifully sprayed rose; large and fine....	50	4 00			
Salem. Fine salmon pink, with maroon blotches.....	75	7 00			
Schwaben. Light yellow, deep red blotch.....	1 00	8 00			
Scribe. An enormous spike; flower tinted white, freely striped carmine.....	75	7 00			
Spot. White, freely spotted and mottled rose.....	75	7 00			
Taconic. Bright, lively pink, flecked and striped with shades of the same color.....	75	6 00			
Victory. Clear primrose yellow; large, open flower.....	75	7 00			
War. Blood red, shaded crimson black.....	75	7 00			
White Excelsior. (Syn., Reine d'Aujon) (Radium); excellent, pure white for cutting; very slightly tinted throat.....	60	5 50			
Willy Wigman. Delicate rose-tinted cream, with large carmine red blotch.....	60	5 00			

DAHLIAS, Double

5 of a kind at 10 rate

If ordered to be sent by parcel post, add postage at zone rates. Weight per 10, 6 lbs. (including packing), for largest-size roots as offered below. Postage on single roots 5 cts. each.

CACTUS DAHLIAS



Cactus Dahlia

T. G. Baker. Bright yellow; very large, finely formed flowers held on long, stiff stems.....	Each	10		
		\$0 30	\$2 75	
Comrade. Clear salmon pink.....	25	2 25		
Excelsior. Rich velvety maroon...	20	1 80		
General Buller. Rich, velvety maroon, tipped white.....	25	2 25		
Juliet. Rosy pink, tinting lighter toward the center; very large, with long incurved petals.....	20	1 80		
Lustre. Scarlet vermillion, shading to crimson; early and free blooming.....	20	1 80		
Libelle. Dark purple.....	20	1 80		
Madame Henry Cayeaux. Clear pink, profuse bloomer.....	20	1 80		
Rev. T. W. Jamison. Soft salmon pink, suffused lilac.....	20	1 80		
Sequoia. Large, golden bronze; fine form on long, stiff stems....	20	1 80		
Standard Bearer. Bright, clear scarlet, very profuse bloomer...	15	1 25		
The Pilot. Yellow, tipped Terra-Cotta.....	15	1 25		



Decorative Dahlia

DECORATIVE DAHLIAS

	Each	10
Jumbo. Deep red, shaded maroon.	\$0 20	\$1 80
Lord Penn. Large, purple quilled petals.....	20	1 80
Mont Blanc. Pure white.....	25	2 25
Melody. Clear canary yellow.....	20	1 80
Orange King. Richest shade of orange; very profuse bloomer..	20	1 80
Professor Mansfield. A giant Decorative of the most unique coloring—a pleasing combination of yellow, red and white.....	20	1 80
Sylvia. Deep pink, tinting to flesh pink at the center. Long, stiff stems; large and perfect in form. Fine for cutting or garden.....	15	1 25
Zulu, "The Black Dahlia." Velvety maroon, shaded black.....	30	2 75

SHOW AND FANCY DAHLIAS

Black Hussar. Rich maroon, vigorous grower with long stems...	25	2 25
Dorothy Peacock. The world's best pink.....	25	2 25
Emily May. Yellow, blotched bronzy red.....	20	1 80
Miss Dodd. Large, canary yellow..	20	1 80
Mrs. Lloyd Driggs. Rich red.....	20	1 80
White Swan. Large pure white; reliable.....	20	1 80

POMPON DAHLIAS

	Each	10
Clarissa. Pale primrose.....	\$0 25	\$2 25
Helen Lambert. Clear yellow.....	25	2 25
Nerissa. Soft rose pink.....	25	2 25
Snowclad. The best, pure white Pompon.....	20	1 80
Sunshine. Richest vermilion scarlet. Splendid little flowers on long stems.....	20	1 80

PAEONY-FLOWERED DAHLIAS

Canary. Fine canary yellow; very large, on long, graceful stems; early.....	30	2 50
Duke Henry. Large, vivid cardinal red.....	30	2 75
Mrs. T. G. Baker. Beautiful, pure white.....	30	2 75
Sensation. Vermilion red, tipped snow white; distinct and striking.....	25	2 25

CENTURY DAHLIAS

Crimson Century. Rich crimson; rose band round disk.....	15	1 25
Eckford Century. Probably the largest single Dahlia. Immense flowers of pure white, spotted pink and penciled crimson; produced on long, stiff stems.....	20	1 80
Fringed 20th Century. The first of a new race, with cleft or serrated petals. A bright, rosy crimson, with lighter markings.	20	1 80
Rose-Pink Century. The largest and best deep pink. Enormous flowers on long, 3-ft. stems. A sure and continuous bloomer; vigorous plant.....	20	1 80
Wildfire Century. Century size, with the brilliant, rich scarlet of the old Wildfire. Acknowledged the best commercial scarlet.....	20	1 80



Show Dahlia

CANNAS, Dwarf, Large Flowering French

Not less than 5 of a kind at 10 rate, 25 at 100 rate. If wanted by mail, add 15 cts. per 10 for postage

Cannas do well in almost any kind of soil, but they well repay liberal treatment. For the best results they should be planted in good loam that has been well mixed with an abundant supply of well-rooted stable or other manure. The beds should be spaded 2 feet deep or more, and the soil well pulverized. Water should be applied abundantly at all times, but good drainage is essential.

Cannas are most effective when planted in masses, either alone or in combination with *Salvia* (Scarlet Sage) and bordered with *Coleus* or other dwarf-growing bedding plants. They are also frequently used with some of the tall-growing ornamental grasses, with which striking combinations can often be secured. They do best in sunny situations, and should be set out about 2 feet apart each way.

ALL OF THE FOLLOWING ARE DORMANT ROOTS

GREEN-FOLIAGED CANNAS

PINK-FLOWERING

	Each	10	100
Hungaria. 3½ ft. Pure "La France" pink with satiny sheen; large flowers.....	\$0 10	\$0 90	\$8 00
Rosea Gigantea. 5 to 6 ft. Large flowers, soft rose shading to carmine-pink ...	20	1 80	15 00
Venus. 4 ft. This is one of the prettiest Cannas in existence. The flowers are a gay rosy pink, with a well defined border of creamy yellow; blooms all the time.....	10	90	8 00

RED-FLOWERING

Alphonse Bouvier. 5 ft. Clear crimson flowers borne in large clusters.....	10	90	8 00
Crimson Bedder. 3½ ft. Without exception the most conspicuous and satisfactory red bedding Canna on the market.....	10	90	8 00
Duke of Marlboro. 4 ft. Dark rich, velvety crimson; fine shapely flowers.....	10	90	8 00
Louisiana. A bright crimson scarlet of the orchid-flowered type; grows 5 to 6 feet high, with immense spikes of bloom. Individual flower 5 inches across with correspondingly broad petals. Very showy in beds or as a center for more dwarfier varieties.....	10	90	8 00
Pennsylvania. 5 to 6 ft. Large, orchid-flowering scarlet, overlaid with orange..	10	90	8 00

YELLOW-FLOWERING

Austria. 4 ft. Bright yellow, with crimson in the throat; orchid flowered	10	90	8 00
Florence Vaughan. 4 ft. Yellow, with bright red spots.....	10	90	8 00
Indiana. 6 ft. Orchid-flowered sorts, with rich, golden orange flowers, often 7 inches across.....	10	90	8 00
Richard Wallace. 4 ft. Flowers large; color pure yellow. Fine for bedding....	10	90	8 00

VARIEGATED-FLOWERING

Allemannia. 5 ft. Orchid flowering, bright scarlet, with broad, yellow border, beautifully mottled and variegated.....	10	90	8 00
Gladioflora. 3½ ft. Gladiolus-like, crimson flower edged with gold.....	10	90	8 00
Mad. Crozy. 3½ ft. Vermilion, with gold border; very pretty.....	10	90	8 00
Niagara. 3 ft. Deep crimson, with wide irregular border of golden yellow.....	10	90	8 00

BRONZE-FOLIAGED CANNAS

RED- AND YELLOW-FLOWERING

Brandywine. 3½ ft. Flowers red. Splendid for mass planting.....	10	90	8 00
David Harum. 3 ft. Large-sized flowers. Bright vermilion scarlet, dotted with crimson spots.....	10	90	8 00
King Humbert. 4 ft. Bears immense, brilliant orange-scarlet flowers streaked with crimson, in gigantic trusses. A massive, sturdy grower, of stately habit.....	15	1 25	10 00
Shenandoah. 4 ft. Flowers beautiful, rosy pink, borne in large clusters. The foliage is very beautiful, being veined and tinted, having a tropical appearance.....	10	90	8 00
Wabash. 4 ft. Very large flowers; carmine-pink.....	15	1 25	10 00
Wyoming. 7 ft. Immense umbels of massive orange flowers; bronze-purple foliage. A splendid bedder.....	10	90	8 00

PAEONIES

If to be sent by mail, add postage at zone rates

Double Paeonies are too well known to require description. Their present popularity is due to the great improvement in them in recent years, their easy culture, the handsome appearance of the plant, and the brilliant and striking effect of their massive, finely formed and richly colored flowers. The attention given to them in Europe and in America has resulted in the production of many notably fine new varieties. Among hardy, herbaceous perennials, the Chinese Paeonies rank about first for lawn or flower-border, or shrubbery decoration.

Our assortment includes some of the best and most distinct sorts, new and old. *There are many kinds, including varieties showing but trifling variations, which we omit.*

Herbaceous Chinese Paeonies

Mailing rate 1 lb. each

Delachei. Amaranth purple red; fragrant.....	Each 10	\$0 50	\$4 50
Duchesse de Nemours. (Calot.) Sulphury white.....	60	5 50	
Eugene Verdier. Pink and salmon.	1 50		
Felix Crousse. Brilliant red.....	1 00		
Festiva maxima. White.....	60	5 50	
Louis Van Houtte. Cherry color. with purplish reflection.....	50	4 50	
Madame de Verneville. Silvery white; extra fine.....	60	5 50	
Marie Lemoine. Full double white, creamy center, splendid flower..	75		
Mons. Jules Elie. Satiny pink, very early.....	1 25		
Monsieur Krelage. Wine color...	60	5 50	
Double, Mixed, White	45	4 00	
" " Crimson	45	4 00	
" " Rose	45	4 00	
" " Pink	45	4 00	
" " Carmine	45	4 00	

Paeonia Officinalis

Mailing rate 2 lbs. each

Anemoneaeflora. Large; crimson; single Anemone-flower shape....	Each 10	\$0 60	\$5 00
Atro-rubra plena. Dark red.....	30	2 75	
Rosea plena. Pink.....	50	4 50	
Tenuifolia. Single-flowering. Rich crimson; narrow leaved, feathery foliage.....	60	5 00	
Single-flowering. Mixed.....	50	4 50	

LILIES

LIST OF LILIES

Will appear in our Spring Catalogue

If to be sent by mail, add postage at zone rates

Lilies are easily grown and require little care. They do best in a light, well drained soil. Some peat or leafmold may be used to advantage. They also prefer partial shade, and the taller sorts must have protection from high winds.

JAPAN LILIES

Batemani. Unspotted, bright apricot flowers; beautiful variety. 3 to 4 feet high. 1 lb. 10.	Each 10	\$0 25	\$2 00
Elegans Incomparable. Deep red, spotted black.....	25	2 00	

VARIOUS LILIES

Bolanderi. Bell shaped, deep crimson flowers, dotted with purple. Grows 1 to 3 feet high. Rare. 1 lb. 10.	50	4 50	
Canadense (Meadow Lily). Drooping, yellow flowers, spotted red; 1½ to 3 ft.....	15	1 25	
Canadense rubrum. Red flowers.	15	1 25	
Columbianum (Oregon Lily). Orange flowers, dotted maroon; fragrant. 1 lb. 10.....	45	4 00	



Paeony Chinensis

LILIES—Continued

Henryi (Orange Yellow Speciosum). Very tall-growing variety; deep orange-yellow flowers. 3 lbs. 10.	Each 10	\$0 45	\$4 00
Superbum (Turk's Cap Lily). Orange red, spotted; 4 ft.	20	1 50	
Wallacei. Orange red, maroon spots; late. 8 oz. 10.....	25	3 00	
Washingtonianum. Stately habit; large trumpet-shaped flowers, pure white, tinged purple; fragrant; 4 to 7 ft. 2 lbs. 10.....	50	4 50	

LILY-OF-THE-VALLEY

If ordered sent by mail, add postage at zone rates

Clumps. Fine, large clumps, with many flowering tips on each. Fine for planting outside in shaded positions and for naturalizing by the side of streams or wooded walks. 3 lbs. each. Expected; prices on application.

Pips for Forcing. 2 lbs. each bundle of 25. Expected; prices on application.

JAPAN IRIS (Iris Kaempferi)

If ordered sent by mail, add postage at zone rates

Mixed Colors from a Superb Collection, 60 cts. per clump, \$5.00 per 10

We are importing from Japan a large supply of the following twenty of the best of these magnificent Irises, which are remarkable for the beauty of their colorings and stateliness of habit. Some of them send up ten to twelve spikes, 3 feet high, each bearing two to four enormous blossoms, 8 to 10 inches across. They are most valuable for cut-flowers and table decorations—as handsome as Orchids. Supply water liberally when growing. Cut in the early morning or after sunset. The descriptions given are those furnished us by the growers in Japan.

SUPERB COLLECTION OF LARGE-FLOWERED SORTS

Arrival uncertain, price not fixed. The following may be ordered by number; mailing rate 1 lb. each

- 13 **Boteki-no-Koe.** Pure white, heavily veined lavender, with pale primrose blotches; standard wine color. Three large petals. Striking.
- 26 **Date-dogu.** Claret red, yellow blotches. Three petals.
- 89 **Fuyoho.** Large; pure white, yellow blotches.
- 31 **Gei-Sho-Ui.** Claret red, veined white; standards shaded lavender, darker edges, yellow blotches.
- 4 **Ho-o-jo (Ho-o-castle).** Ruby crimson, primrose blotches; standards white and lavender.
- 37 **Katsuraotoko.** White, veined lavender; standards white, suffused with lavender, darker edges. Six petals.
- 15 **Momiji - no - Taki.** Ruby red, yellow blotches; standards white, spotted toward edges pale wine color. Six petals.
- 30 **Noboro-Ryu.** Intense Tyrian blue, with yellow blotches; standards white, edges violet.
- 9 **Ran.** Royal purple, edged lavender, with large primrose blotches; standards wine-red, white at base. Six large petals.
- 34 **Sassa-no-Koe.** White, veined wine red and blotched yellow; standards lavender. Three petals.
- 20 **Senjo-To.** Light wine color, spotted and shaded to dark red, suffused with white, yellow blotches.
- 40 **Shiguremoniji.** Blush pink, darker toward edges, splashed wine red; primrose blotches. Three petals.
- 21 **Shikainami.** Light blue, to dark blue edges, white veined, yellow blotches. Very handsome. Six petals.
- 6 **Shippo (Cloisonné).** Rich Tyrian blue, edged purple and veined white; yellow blotches.
- 14 **Shiraga.** Deep purple, heavily veined white; standards lavender; yellow blotches. Six large petals.



Japan Iris

JAPAN IRIS—Continued

- 17 Suibijin.** Claret red, darker toward edges; standards white veined, and stigmas wine color. Three petals.
- 44 Ujigawa.** Rich, vinous purple; standards blush pink; stigmas lavender, canary-yellow blotches. Three immense petals.
- 50 Ushio-no-Iro.** Violet, veined white; standards white, edged sky blue, yellow blotches. Seven or eight petals.

- 7 Yamato-Nishiki.** Pale lavender, blotched and flaked dark purple, large primrose blotches. Three petals.
- 8 Yodokuruma.** Pale wine color, veined darker; large orange blotches; standards very erect. Three petals.

GERMAN IRIS (Iris Germanica)

Will thrive in almost any good garden soil, except one that is wet.

Fine Mixed. 75 cts. per 10, \$5 per 100. Mailing rate, 6 oz. 10, 3 lbs. 100.

AMARYLLIS

If to be sent by mail, add postage at zone rates

The Amaryllis produces, under the simplest conditions, one to three spikes 2 or more feet high, crowned with from two to six large and beautiful, trumpet-shaped blooms lasting long in good condition. They should be planted as soon as received, in pots an inch or so larger than the diameter of the bulb.

The most suitable soil is good loam, with one-fourth part of leafmold or pulverized manure, and some sand. Good drainage is very important. The growing season is from early Spring until September. Manure-water during this time is essential.

	Each	10
Belladonna major. Violet and white; in large umbels; fragrant. 4 lbs.		
10.....	\$0 40	\$3 50

	Each	10
Johnsoni (Spice Lily). Large flowers; crimson, striped white. Large bulbs. 6 lbs. 10.....	\$0 60	\$5 50

ANEMONE, or WINDFLOWER

Very ornamental, hardy perennials, producing beautifully colored flowers in Spring and Summer. They do best in rich soil and in a sheltered and well drained position.

Mailing rate 6 oz. 10, 3 lbs. 100

Less quantities than quoted, 10 cts. each
Except where quoted otherwise

Coronaria or Poppy-Flowered Anemone

	10	100		10	100
Blue, Single Mixed	\$0 25	\$2 00	White, The Bride. * Single; pure		
Scarlet, Single Mixed	\$0 25	\$2 00	white.....	\$0 20	\$1 50

Anemone Species

	10	100		10	100
Apennina, White	\$0 30	\$2 50	Japonica rosea. Large; rosy carmine	\$0 60	\$5 50
Japonica alba. Large, pure white; invaluable for cutting.....	75	7 00	“ rubra. Rosy crimson.....	75	7 00
“ Queen Charlotte. Semi-double; pink.....	1 00	9 00	“ Whirlwind. Large, semi-double, pure white. Splendid for cut-flowers.....	65	6 00

BEGONIAS Tuberos-Rooted

Five of a kind at 10 rate, 25 of a kind at 100

Mailing rate 1 lb. 10, 7 lbs. 100

Splendid pot plants for the house or for bedding. For bedding they should be started in hotbed in March and April. The hollow end of the bulb should be uppermost and but slightly covered. Water sparingly until the plants are growing.

	10	100		10	100
Single Scarlet	\$0 90	\$7 50	BEGONIA CRISPA (Single Fringed Begonias).		
“ Rose	90	7 50	These comparatively new Begonias have		
“ White	90	7 50	beautifully shaped, gracefully frilled and		
“ Yellow	90	7 50	crested flowers, borne above the foliage on		
Double, White	1 25	10 00	long and erect stems. An exceedingly fine		
“ Yellow	1 25	10 00	strain. RED, ROSE, WHITE, YELLOW,		
“ Rose	1 25	10 00	SALMON and ORANGE. \$1.25 per 10,		
“ Crimson	1 25	10 00	\$10 per 100.		

CRINUMS

The most suitable soil is a compost of turfy loam, cow manure and sand. They should be grown in large pots or tubs about three-fourths of the bulbs being out of the soil. In late Fall remove to a cool house and allow to rest till new leaves begin to appear in February. If placed outside when warm weather begins, they will flower through the Summer, making splendid lawn or veranda plants.

Powellii. Produces long stems, bearing at the top five to eight large dark bell-shaped flowers. Each 2 lb. rate, mixed\$0 25

GLOXINIAS

Mailing rate 1 lb. 10, 7 lbs. 100

Beautiful greenhouse plants, remarkable for the intensity and variety of their colorings, and the exquisite manner in which they are often blotched, mottled, penciled and blended. They thrive best in a soil composed of leafmold and peat, in equal parts, with a little sand added. When growing give plenty of water, but it should always be tepid.

	Each	10	100		Each	10	100
Crassifolia erecta, Red	\$0 20	\$1 75	\$15 00	Crassifolia erecta, White ..	\$0 20	\$1 75	\$15 00
“ “ Spotted	20	1 75	15 00	“ “ Blue ..	20	1 75	15 00
				“ “ Mixed ..	20	1 50	13 00

MONTBRETIAS

Treat same as Gladioli

Mailing rate 6 oz. 10, 2 lbs. 100

Summer-flowering, bulbous plants that are becoming more popular every year. They should be planted in groups. Ordinary garden soil and a sunny position suit them.

	10	100		10	100
Crocasmæflora Golden Sheaf.			Crocasmæflora		
Bright yellow.....	\$0 25	\$2 00	with yellow disc in		
“ Meteor. Yellow in-			the center.....	\$0 25	\$2 00
side, deep red out-			“ Tigridie. Orange-		
side.....	80	7 50	yellow throat, macu-		
“ speciosa. Copper,			lated brown.....	35	3 00
			“ Mixed. All sorts..	25	1 50

HARDY PHLOX

(Decussata)

Mailing rate 4 lbs. 10

A flower of more than usual beauty that will succeed in almost any kind of soil or climate. May be planted in the Spring or Fall.

	Each	10		Each	10
Aquillon, Carmine	\$0 30	\$2 50	Pantheon. A delightful salmon rose,		
Boule de Feu. Dark carmine; extra			with a pale border running around		
fine.....	30	2 50	the eye.....	\$0 30	\$2 50
Falcon De Neige. Pure white.....	30	2 50	Pecheur d'Island. Fiery red, with		
Jeanne d'Arc. Pure white.....	30	2 50	white center.....	30	2 50
Each sort, \$20 per 100					

MISCELLANEOUS BULBS AND ROOTS

If ordered sent by mail, add postage at zone rates according to weight indicated

	Each	10	100		Each	10	100
APIOS tuberosa. Hardy				CAMASSIA Cusickii. Very			
climber, with clusters of				large leaves and lovely,			
fragrant purple flowers.				pale sky-blue flowers,			
1 lb. 10.....		\$0 40		produced in racemes 2 to			
ARUM cornutum (Red				3 feet long.....	\$0 10	\$1 25	
Calla). 5 lbs. 10.....	\$0 20	1 50		CYCAS revoluta Stems			
dracunculus (Dragon				(Sago Palm). In various			
Flower). Very orna-				sizes. 25 cts. per lb.			
mental, mottled stem				CYCLAMEN, Persicum			
and handsome foliage.				giganteum. Rose....	25	2 00	
Mailing weight, each				Persicum giganteum.			
8 oz.....	25	2 25		White, "Mont Blanc" ..	30	2 50	
italicum. Creamy white.				Persicum giganteum.			
1 lb. 10.....	15	1 25		Mixed.....	20	1 75	
palæstinum sanctum				DICENTRA spectabilis			
(Black Calla). 2 lbs. 10.	25	2 00		(Bleeding Heart). Hardy			
CALLA Æthiopica (White				perennial; also forcer.			
Calla, or Lily-of-the-				1 lb. each, 8 lbs. 10....	25	2 00	\$15 00
Nile). Large, white,				EREMURUS himalaicus.			
trumpet-shaped flowers.				White.....	1 00		
1½ to 2 in. Mailing				robustus. Rose. 1 lb.			
rate 4 lbs. 10.....	25	2 00		each.....	1 25		
Elliottiana, Yellow;				HÆMANTHUS albifolia.			
Spotted Leaf. Dark				White.....	75		
green leaves, spotted				coccineus. Scarlet.....	1 50		
silvery white. 2 lbs. 10.	30	2 50					

MISCELLANEOUS BULBS AND ROOTS—Continued

	Each	10	100
HEMEROCALLIS fulva. Coppery orange.....	\$0 15	\$1 25	
Kwanso fl. pl. Coppery orange; double.....	15	1 25	
INCARVILLEA Delavayi. Large; rosy purple; splendid, hardy peren- nial, with handsome fo- liage. 6 lbs. 10.....	15	1 00	
NERINE Sarniensis (True Guernsey Lily). Flow- ers brilliant crimson, in large clusters.....	35	3 00	
OXALIS Bowel. Crimson..		35	\$2 50
Grand Duchesse Grand- iflora. Pink.....		25	2 00
White		25	2 00
Lavender		25	2 00
Mixed		20	1 50
RANUNCULUS. Soak in water two days before planting.			
Persian Mixed		20	1 50
Turban Mixed		20	1 50
SCILLA, Peruviana alba (White Cuban Lily)....	20	1 50	
Peruviana Coerulea (Blue Cuban Lily).....	20	1 50	
SPIRÆA America. Rosy lilac.....	20	1 50	
W. E. Gladstone. Snow- white plumes, long stems, fragrant. Fine forcer.....	25	2 00	

SPIRÆA—Continued

	Each	10	100
Queen Alexandra. Pink. A pink variety, in habit similar to Gladstone, but flowering three weeks later. Beautiful.....	\$0 20	\$1 50	
Rubens. Lovely deep carmine; good forcer...	35	3 50	
japonica compacta mul- tiflora. Neat and com- pact. Pure white flow- ers.....	20	1 50	
TRILLIUM Erectum. Dark purple; erect habit.....	10	75	\$6 00
grandiflora (Giant Amer- ican Wood Lily, or "Wake Robin"). Large, white flowers and easily grown in shaded posi- tion.....	10	60	5 00
TRITOMA Pfitzeri. Large spikes of flame-colored flowers. 2 lbs. 10.....	25	2 00	
TYDÆA, Mixed. Very showy, golden scarlet and spotted.....	20	1 25	
WATSONIA Ardernei (O'Brieni). Large, beau- tiful, snow-white Gladi- olus-like blooms over 3 inches in diameter. Fine forcer or for planting outdoors in Spring. 2 lbs. 10.....	25	2 00	15 00
ZEPHYRANTHES candida. White, greenish base...	10	40	3 00
Pink	10	75	6 00

Insecticides and Remedies for Plant Diseases

ALL SUBJECT TO CHANGE IN PRICE WITHOUT NOTICE

POSTAGE, EXPRESS OR FREIGHT CHARGES TO BE PAID BY PURCHASER

ANT-DESTROYER. Will positively destroy ants.

¼-lb. tins...\$0 20	1-lb. tins.....\$0 60
½-lb. tins... 35	5-lb. tins..... 2 75

APHINE. Has no equal for the destruction of green, black or white fly, thrips, red spider, mealy bug, etc. Use one part to forty of water. Does not injure the most tender plants.

¼ pt.....\$0 25	Pt.....\$0 65
½ pt..... 40	Qt..... 1 00
Gal.....	2 50

APHIS PUNK. Paper saturated with nicotine for fumigating in greenhouses.

Per box, 12	12 boxes.....\$7 00
sheets.....\$0 65	

ARSENATE OF LEAD. Adheres well to foliage and does not readily wash off. It remains well suspended in solution, insuring even distribution. It is white, and shows just where it has been applied. It does not injure tender foliage.

Lb.....\$0 30	10 lbs.....\$2 50
5 lbs..... 1 30	25 lbs..... 5 75
100 lbs.....	20 00

BORDEAUX MIXTURE, or FUNGIROID. For all fungous diseases.

Dry—

1-lb. can....\$0 45	5 lbs.....\$1 75
50 lbs.....	17 00

BORDEAUX MIXTURE—Continued

Liquid—

Qt.....\$0 50	Gal.....\$1 50
5-gal. keg.....	5 00

BORDEAUX ARSENATE LEAD PASTE.

1 lb.....\$0 30	10 lbs.....\$2 25
5 lbs..... 1 25	25 lbs..... 5 50
50 lbs.....	10 00

BUG DEATH. This is a fungicide, insecticide and plant food combined, and contains neither Paris Green nor Arsenic.

1 lb.....\$0 20	5 lbs.....\$0 75
3 lbs..... 50	12½ lbs..... 1 50

BLACK LEAF 40. For spraying vegetables, fruits and flowers to destroy sucking insects.

1-oz bottle..\$0 25	½-lb. tin.....\$0 75
2-lb. tin.....	2 50

CATTLE COMFORT. A protection from flies, etc. for live stock.

1 gal.....\$1 75	5 gals.....\$7 00
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COPPER SOLUTION, Ammoniated. Prevents black and brown rot, mildew and other grape diseases, Pear and Apple scab, leaf blight, Tomato rot, Potato blight, Melon blight, etc. Dilute one part to 100 parts of water; spray lightly.

Qt.....\$1 25	Gal.....\$3 25
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INSECTICIDES AND REMEDIES FOR PLANT DISEASES—Continued

CUTWORM KILLER. Kills the worms; simple and easy to use; specially prepared for bringing young plants through the critical period.

1-lb. pkg.\$0 35 | 5-lb. pkg.\$1 25

CUTWORM PREVENTIVE. Of inestimable value. Cutworms will not infest soil mixed with this preparation.

5-lb. can.\$0 55 | 10-lb. can.\$1 00

"ELECTRIC" WORM ERADICATOR. For killing all grubs, insects and worms that do their destructive work at the roots of plants and trees, and infest lawns, golf-courses, etc. For most pests, four ounces to each four gallons of water; for cutworms, four ounces to two gallons of water.

8-oz. bottle.\$0 50 | 1 gal.\$4 00

24-oz. bottle. 1 00 | 5 gals.17 50

10 gals.34 00

FIR-TREE OIL. Dilute one pint to twenty gallons of water. Apply with vaporizer or syringe.

½ pt.\$0 75 | Qt.\$2 25

Pt.1 25 | ½ gal.4 00

Gal.7 00

FISH-OIL SOAP. (Formerly called Whale-Oil Soap.) For washing trees and destroying all insects on the bark.

1 lb.\$0 25 | 10 lbs.\$2 20

5 lbs.1 20 | 100 lbs.20 00

FUNGINE. For mildew, rust, and all other blights, does not stain foliage.

Pt.\$0 65 | Qt.\$1 00

1 gal.3 50

GRAPE DUST, Hammond's. For the prevention of mildew on Roses, Grapes, Gooseberries, etc. Apply with bellows.

5 lbs.\$0 90 | 10 lbs.\$1 40

100 lbs.12 00

HELLEBORE. Apply dry or mix in water—one ounce to three gallons.

1 lb.\$0 60 | 2 lbs.\$1 10

HERBICIDE. The Weed Exterminator. Dilute with from 20 to 40 parts of water.

½ gal.\$1 00 | 5 gals.\$7 00

1 gal.1 75 | 10 gals.12 50

IMP SOAP SPRAY. Contains no mineral poisons, used on all kinds trees and plants.

Pt.\$0 50 | 1 gal.\$2 25

Qt.75 | 5 gals.10 00

KEROSENE EMULSION. For Cabbage worms, scale on trees, caterpillars, Melon lice, Rose bugs, etc. Dilute 25 to 50 parts.

Qt.\$0 55 | 1 gal.\$1 50

½ gal.1 00 | 5 gals.6 50

KILM WEED ERADICATOR. A patented tube containing a powerful weed killer. Will exterminate Dandelion from lawns. Easy to use. Each 50 cts. Extra tubes of powder for re-charging, 25 cts. each.

LAWN COMPOUND, Sterlingworth. A non-poisonous powder to destroy Plantain, Dandelions, Chickweed, and most other weeds having a broad, hairy surface, without killing the grass. Five pounds will dress 500 to 1,000 square feet, according to condition of the lawn.

5-lb. can.\$0 70 | 50-lb. keg.\$4 50

10-lb. can.1 10 | 100-lb. keg.8 25

LEMON OIL. For destroying scale, caterpillar, mealy bug, etc. Directions on can.

½ pt.\$0 30 | Qt.\$0 90

Pt.50 | ½ gal.1 50

1 gal.2 50

LIME-SULPHUR SOLUTION, California Wash.

For San José scale. One gallon makes fifteen by adding water.

Qt.\$0 50 | 5 gals.\$3 50

Gal.75

LIME SULPHUR. Dry. Make your own solution. 1 lb. makes 2 gals spray.

1 lb.\$0 35 | 5 lbs.\$1 25

NICO-FUME LIQUID. For fumigating or spraying. Effective against green fly, mealy bug, etc. Does not stain or injure blooms, and leaves no disagreeable odor. For spraying, one to two teaspoonfuls to a gallon of water. Lamps, 60 cts. each.

¼ lb.\$0 50 | 4 lbs.\$5 50

Lb.1 50 | 8 lbs.10 50

Fumigators, 60 cts. each.

NICO-FUME TOBACCO PAPER. For fumigating. Does not injure blooms. In tins.

24 sheets.\$0 85 | 144 sheets.\$4 00

288 sheets.7 50

PARIS GREEN. Mix at rate of one pound to two hundred gallons of water. Effective against all chewing insects.

¼-lb. can.\$0 25 | ½-lb. can.\$0 40

1-lb. can (All subject to change).75

PYROX. The best and safest all-round spray for all insects, blights and fungus troubles. Kills Potato bugs. Sticks like paint.

1 lb.\$0 35 | 10 lbs.\$2 50

5 lbs.1 40 | 25 lbs.5 75

READEANA. Rose bug exterminator in liquid form.

8-oz. can.\$0 50 | 1 qt.\$1 35

1 gal.4 00

SCALECIDE. For San José scale. Petroleum oil that mixes at once with cold water and stays mixed. No hot water necessary. Add one gallon for every fifteen to twenty gallons of water.

Qt.\$0 65 | 5 gals.\$5 30

Gal.1 50 | 10 gals.9 85

SLUG-SHOT, Hammond's. Excellent for destroying Cabbage, Turnip and Beet flies, Potato bugs, Currant worms, etc.

Lb.\$0 15 | 10 lbs.\$0 90

5 lbs.50 | 100 lbs.8 00

SULPHO-TOBACCO SOAP. Dissolve in proportion of two ounces to a gallon of water, and apply with a syringe or atomizer. It will destroy Rose slugs, aphides, green fly, bark lice, etc.

3-oz. box.\$0 10 | 8-oz. box.\$0 20

SULPHUR, POWDERED. Valuable for protecting against mildew on Grapes, Roses, etc.

Lb.\$0 15 | 10 lbs.\$1 00

TOBACCO DUST—

Regular Kind. Highest grade for dusting.

Lb.\$0 10 | 10 lbs.\$0 60

5 lbs.35 | 100 lbs.3 50

Stoothoff's "Black Stuff." For dusting.

25 lbs.\$1 75 | 50 lbs.\$3 00

100 lbs.5 00

Stoothoff's "Fumigating Kind." For burning.

25 lbs.\$1 75 | 50 lbs.\$3 00

100 lbs.5 00

TOBACCO STEMS. For fumigating. In bales of about 150 lbs., at \$2.75 per 100 lbs.

INSECTICIDES AND REMEDIES FOR PLANT DISEASES—Continued

TREE TANGLEFOOT. A sticky substance applied directly to the bark to protect trees against climbing insect pests. One application remains sticky, fully exposed to weather, three months. One pound will make a band 7 to 8 feet long and about 6 inches wide.

1-lb. tin.....\$0 50	10-lb. tin.....\$4 50
3-lb. tin.....1 45	20-lb. tin.....8 75

VERMINE. A soil sterilizer and germicide for all soil vermin, such as cut, eel, wire and grub worms, slugs, maggots, ants, etc.

¼ pt.....\$0 25	Pt.....\$0 65
½ pt.....40	Qt.....1 00
1 gal.....	3 00

WEED-KILLER, Pino-Lyptol. This fluid absolutely destroys all the weeds and other growth wherever applied. Mix one part Pino-Lyptol with ten to fifteen parts water.
1 gal.....\$1 50 | 5 gals.....\$6 25
10 gals.....12 50

WEED KILLER, Sterlingworth. A powerful powder for destroying vegetation of all sorts on gravel walks. Also excellent for destroying Poison Ivy.
1 lb.....\$0 50 | 5 lbs.....\$2 25

X-L-ALL LIQUID INSECTICIDE. An efficient preparation for spraying. Purely nicotine; harmless to very delicate plants; kills mealy bugs, red spider and all insect pests.

Pt.....\$1 00	½ gal. can.....\$2 75
Qt.....1 85	1 gal. can.....5 00

High-Grade Fertilizers

ALL NET CASH—PRICES SUBJECT TO CHANGE WITHOUT NOTICE

COMPLETE MANURE

Guaranteed to contain ammonia, 2 per cent.; available phosphoric acid, 9 per cent.; actual potash, 1 per cent.; sulphate of magnesia, soda, lime, sulphuric acid, etc. Adapted for use on all crops, such as Corn, Tomatoes, Peas, etc., and is especially suited for grain crops. Use 1,200 to 1,500 pounds to the acre.

Ton.....\$62 00	Bag of 100 lbs.....\$3 75
Half-ton.....32 00	50 lbs.....2 00
Quarter-ton.....17 00	25 lbs.....1 25
Single bag of 200 lbs.....7 00	10 lbs.....60

Lawn Fertilizer

Guaranteed to contain ammonia, 4¾ per cent.; available phosphoric acid, all soluble, 5 per cent.; actual potash, 1 per cent.; lime, sulphate of magnesia, soda, sulphuric acids, etc. Specially prepared for lawns and meadows as a top-dressing. Apply broadcast at rate of 1,000 to 1,500 lbs. to the acre.

Ton.....\$70 00
Half-ton.....36 00
Quarter-ton.....19 00
Single bag of 200 lbs.....7 75
Bag of 100 lbs.....4 00
50 lbs.....2 25
25 lbs.....1 30
10 lbs.....80

POTATO MANURE

Golden Potato Manure

Guaranteed to contain ammonia, 4 per cent.; available phosphoric acid, 9 per cent.; actual potash, 1 per cent.; sulphate of magnesia, soda, lime, sulphuric acid, etc. This manure is for special use on the Potato crop, and is also adapted to Sweet Potatoes, Vines, Fruit Trees, etc. Use broadcast, about 1,500 lbs. to the acre.

Ton.....\$85 00
Half-ton.....44 00
Quarter-ton.....23 00
Single bags of 200 lbs.....10 00
Bag of 100 lbs.....5 50
50 lbs.....3 00
25 lbs.....1 65
10 lbs.....90

Potomac Potato Manure

Guaranteed to contain ammonia, 4 per cent.; available phosphoric acid, 8 per cent.; actual potash, 3 per cent.

Ton.....\$100 00
Half-ton.....51 00
Quarter-ton.....26 50
Single bags of 200 lbs.....11 50
Bag of 100 lbs.....6 50
50 lbs.....3 70
25 lbs.....1 90
10 lbs.....1 00

Agricultural Salt

Price very changeable

For asparagus beds, etc. In bags of about 200 lbs.

Bag.....\$3 00	Ton, about.....\$25 00
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Not less than one bag sold.

Bowker's Ammoniated Food for Flowers

Excellent for use on house plants, being entirely odorless.

Small pkg.....\$0 25	Large pkg.....\$0 35
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Hardwood Ashes

Highest grade unleached. For top-dressing lawns, especially if the soil is stiff or sour, one and one-half to two tons to the acre.

Per 100 lbs.....\$2 00	½ ton.....\$18 00
------------------------	-------------------

(In barrels of 175 to 200 lbs.)

Ton.....\$35 00

(Barrels weighed in)

HIGH-GRADE FERTILIZERS—Continued

Prices subject to change

Clay's Celebrated Fertilizer

One of the best manures for all horticultural purposes, either in greenhouse or garden. Splendid for mixing with potting soil and as a top-dressing. Notwithstanding its apparently high price, it is quite economical

Prices in Bags

$\frac{1}{8}$ cwt. (14 lbs.)	} Expected Price on application
$\frac{1}{4}$ cwt. (28 lbs.)	
$\frac{1}{2}$ cwt. (56 lbs.)	
1 cwt. (112 lbs.)	

CARTER'S WORM ERADICATOR

For removing earth worms from lawns, putting greens, tennis courts, etc., has a stimulating effect on the turf.

Per 100 lb. \$8 25

Thomson's Vine Manure

Unrivalled for Vines, Tomatoes, Cucumbers, Fruit Trees and all foliage, flowering and fruit-bearing plants, also for vegetables and outdoor plants of every description. The result of many years' practical experience.

$\frac{1}{2}$ cwt. (56 lbs.) \$4 50
Cwt. (112 lbs.) 8 00

Thomson's Special Chrysanthemum Manure

$\frac{1}{2}$ cwt. (56 lbs.) \$8 00

Pulverized Sheep Manure

(Sheephead Brand)

A rich, pure, natural manure. Excellent as a top-dressing for lawns. Its effect is immediate and lasting. Apply at the rate of 1,500 lbs. per acre. It makes a rich and safe liquid manure—one pound to five gallons of water.

1-lb. pkg.	\$0 15	100 lbs.	\$3 50
5-lb. pkg.	50	$\frac{1}{4}$ ton.	16 00
25 lbs.	1 25	$\frac{1}{2}$ ton.	31 00
50 lbs.	2 00	Ton.	60 00

Nitro-Fertile

The odorless liquid fertilizer for use on vegetable and flower garden, lawns, shrubbery, etc., to force growth.

$\frac{1}{2}$ Pt.	\$.C 35	$\frac{1}{2}$ gal.	\$1 75
Pt.	0 60	1 gal.	3 00
Qt.	1 00		

One gallon is sufficient for one season for the average garden or lawn allowing for three or four applications.

Pulverized Limestone

A product that has an exceedingly wide sale among intelligent agriculturists, with the best of results. As a crop-producer we hardly believe it has an equal. It is made from the purest crystalline white limestone obtainable, and analyzes about 97 per cent carbonate.

Bag of 100 lbs. \$1 50 | $\frac{1}{2}$ ton. \$11 00
Ton. 20 00



The Grass and Garden Tonic

Will cure the acidity of the soil, renovate old lawns, and is a sanitary and healthful fertilizer.

50 lb. bags. \$1 00 | 25 lb. bags. \$0 60

Bone Fertilizers, Etc.

Prices subject to change

Pure Ground Bone Meal No. 1. Finely pulverized; excellent for Rose-culture. It decomposes very rapidly, and is more quickly effective than the coarser grades. It is excellent for mixing with the soil for potting.

5 lbs.	\$0 50	100 lbs.	\$4 00
10 lbs.	80	$\frac{1}{4}$ ton.	19 00
25 lbs.	1 30	$\frac{1}{2}$ ton.	36 00
50 lbs.	2 25	Ton.	70 00

Ground Bone No. 2. Coarser than the above; for top-dressing for lawns, and for garden and field crops.

100 lbs.	\$5 00	$\frac{1}{2}$ ton.	\$38 50
$\frac{1}{4}$ ton.	20 00	Ton.	75 00

Ground Bone No. 3. A little coarser than No. 2.

100 lbs.	\$5 50	$\frac{1}{2}$ ton.	\$44 00
$\frac{1}{4}$ ton.	23 00	Ton.	85 00

Pure Raw Bone Meal, Swift's. Contains $4\frac{1}{2}$ per cent. ammonia, 23 per cent. phosphoric acid and over $3\frac{1}{2}$ per cent. nitrogen.

Prices on Application

Leaf-Mold. Indispensable for Azaleas, Rhododendrons, etc. Bbl. \$2.25.

Moss, Sphagnum. For filling Orchid baskets, etc., and for mixing with potting soil to conserve moisture. In bales, 35 lbs. to 40 lbs. at 12 cts. per lb.

Peat, Orchid. For potting Orchids, etc. Barrel, \$2.25.

Peat, Rotted. Fine for mixing with soil for potted plants such as Azaleas, Palms, etc. Barrel, \$2.25.

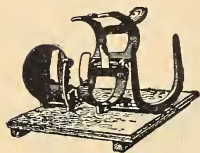
Other Fertilizers

ACID PHOSPHATE	100-lb. bag	} Prices on application.
TANKAGE (Blood and Bone Fertilizer)	100-lb. bag	
IMPORTED SCOTCH SOOT	in bags of 112 lbs.	
NITRATE OF SODA		
MURIATE OF POTASH		
FARMOGERM. See page 65. Price, garden size, 50 cts.; 1-acre bottle, \$2.00; 5-acre bottle, \$7.50.		
MULFORD'S CULTURES. See page 65. Price, garden size, 25 cts.; 1— $\frac{1}{4}$ -acre size, 50 cts.; 1 acre bottle, \$1.50; 5-acre bottle, \$5.00.		

Horticultural Implements and Garden Requisites

ALL NET CASH

POSTAGE, EXPRESS OR FREIGHT CHARGES TO BE PAID BY PURCHASER
PRICES NOT GUARANTEED, SUBJECT TO CHANGE



ASPARAGUS BUNCHER.
Acme. The most popular make. \$3.25.

ASPARAGUS KNIVES



English. (Saw Blade). \$1.00.



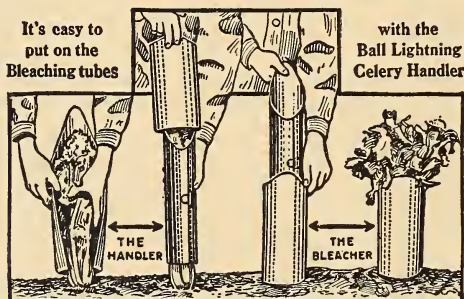
Granite State. 40 cts.

ATOMIZER.

Large, \$2.75
Small, 2.25



It's easy to
put on the
Bleaching tubes



with the
Ball Lightning
Celery Handler

BALL LIGHTNING CELERY BLEACHERS.

Used for bleaching celery without banking up with earth or boards. Great labor saver.

	Per 100	Per 1000
6-in x 12-in. Bleachers.....	\$2.20	\$18.00
6½-in. x 13-in. Bleachers.....	2.50	21.00
7-in. x 14-in. Bleachers.....	2.80	24.00
Brass Celery handlers \$3.50 each.		



BELLOWS, Woodason's Double-Cone, Powder.
\$4.50.



Single-Cone,
Large. \$3.00.

Small, \$2.00.



JUMBO POWDER

GUN. It is 4 inches in diameter, holds 4 ozs. of powder, and serves its purpose well. 40 cts.



BILL AND BRUSH HOOKS.

For heavy pruning.—

English. S-handle. \$2.75.

American. Long handle, \$1.00

BORDER SHEARS. See p. 149.



CARNATION SUPPORTS. Made of light wire, galvanized.

2-Ring.

Per doz.....\$0.75
Per 100..... 5.00

3-Ring.

Per doz..... 1.00
Per 100..... 5.50

CORN KNIFE. Worthington, No. 2.....\$0.25
(See also Grass Hooks)

DIBBLES.

All Iron. 50 cts.

Wood Handle, brass point, 60 cts.

Iron point, 45 cts.



DANDELION PULLER

Hall's. 50 cts.
each.



EDGING KNIVES

Grass, English.

Each

8-in.....\$1.75

9-in..... 2.00

10-in..... 2.25

Without handle.

Handles, 60 cts., extra.



HORTICULTURAL IMPLEMENTS AND GARDEN REQUISITES—Continued
ALL NET CASH
POSTAGE, EXPRESS OR FREIGHT CHARGES TO BE PAID BY PURCHASER
PRICES NOT GUARANTEED, SUBJECT TO CHANGE

FLOWER-POTS. See page 152.

FORKS, Digging or Spading. Best quality, spear point, diamond-back tines. Strapped handle, Long or D.

Each
 4-tine.....\$1.50

Hay. First-quality oval tines. Extra long strapped handle.

2-tine.....\$0.90
 3-tine.....1.25

Manure, Long. Strapped handle.

4-tine.....\$1.40
 5-tine.....1.75

Manure, D-handle.

4-tine.....\$1.65
 5-tine.....2.00



Ladies' Weeding Fork.

American short handle.....\$0.35

Boys' Spading. 4-tine......75

FRUIT-PICKERS.

Perfect. Galvanized steel wire, attaches to pole of any length. Price, without pole, 60 cts.

Poles, for above, 60 cts. each.

FUMIGATING LAMP, "Defiance." For all vaporizing liquids. No glass. Burns kerosene. 60 cts.



FUMIGATOR, "Eureka." For fumigating with tobacco stems. Very best quality, heavy galvanized tin. Each
 No. 2 holds 1 pk.....\$2.75
 No. 3 holds ½ bus..... 3.25

GARDEN LINES, Finest Braided. 96 feet, \$1.00.

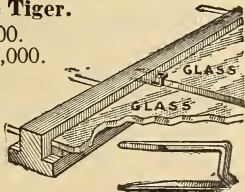
GARDEN REELS. For garden lines. Wrought-iron. Holds 100 feet, 90 cts.; larger size, \$1.40.

GARDEN TOOLS for Ladies. Set of 3 pieces (spade, hoe and rake). \$1.50.

GLAZING POINTS, The Tiger.

No. 2, 60 cts. per 1,000.
 No. 2½, 65 cts. per 1,000.

Pincers, for above.
 55 cts.



GLASS CUTTER, "Red Devil." Hand-honed wheels. Standard of the world. 10, 15 and 25 cts. each.



GLOVES, Gardeners', Goatskin. For men only. \$2.00.

Pig-skin, \$1.50.

GRAFTING WAX. The best grade.

¼-lb. pkg.....\$0.20
 ½-lb. pkg......25
 1-lb. pkg......40

GRASS HOOK or Corn Knife, Crescent. Adjustable. 50 cts.



GRASS HOOKS, (Sickle), English Riveted Back. Thin, sharp blades. 60 cts.

With Trowel Shank. The handle is raised from the blade, making it possible to cut close without bruising the knuckles. 60 cts.

HOES, Garden—

Draw, or Corn. 5-in. 70 cts., 6-in. 80 cts., 7-in. 90 cts.

English Scuffle.

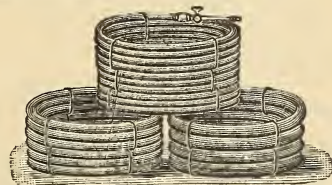
Finest quality steel.
 5-in.....\$1.00
 6-in.....1.15
 7-in.....1.25
 8-in.....1.35
 9-in.....1.50
 Handles 60 cts. each extra.



Crescent Shape Scuffle Hoes. Handled. 50 cts. each.

Warren Hoes.

Short handle.....\$0.40
 Long handle.....1.00
 Used in drilling seed.



HOSE, Rubber. ¾-in.

Electric. In 25-ft. and 50-ft. lengths, 23 cts. per ft.

Thorburn Standard.

X, 6-ply, 21 cts. per ft.
 XXX, 7-ply, 24 cts. per ft.

Our hose is carefully selected, made of first-class material and coupled at both ends. In 25- or 50-ft. lengths.

HORTICULTURAL IMPLEMENTS AND GARDEN REQUISITES—Continued

ALL NET CASH

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HOSE END, No. 1. For connecting hose with ordinary faucets. 50 cts. each.

HOSE COUPLINGS—

1½-in.....	\$0.20
¾-in.....	.25
1-in.....	.40

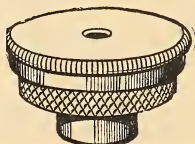
HOSE NOZZLES, Graduating Lawn Hose

Nozzle. Will throw coarse or fine spray, or solid stream. ¾-in. 75 cts. each.

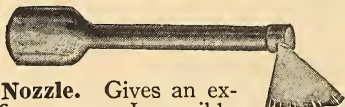
Boston Hose Nozzle. For ¾-in. hose. 75 cts.

Fountain Brass Hose Nozzle. 25 cts.

"Bordeaux" Spraying Nozzle. For ¼-in. pipe, \$1.15 each.



Shower Spray Nozzle. A perfect spray nozzle made of brass; non-corrosive—will not clog. Has both fine and coarse sprays. \$1.25 each.



Stott Spray Nozzle. Gives an exceptionally fine spray. Impossible for it to get out of order. Single Spray, for ¾-in. connection. \$1.50 each. Double Spray. \$2.00 each.

Vermorel Spray Nozzle. 85 cts.

HOSE BANDS, for couplings.

To fit ½-in. hose, 75c. per doz.
To fit ¾-in. hose, 85c. per doz.
To fit 1-in. hose, \$2 per doz.

HOSE MENDERS, Cooper's. Brass; will not rust or wear. No fastening required. For hose with ½-in. bore, 10 cts. each, \$1 per doz. For hose with ¾-in. bore, 12 cts. each, \$1.25 per doz.

HOSE REELS, Tubular Iron. Never break or wear out. No. 10 will hold 100 ft. of ¾-in. hose, \$4. No. 20 will hold 150 ft. of ¾-in. hose, \$5. No. 30 will hold 500 ft. of ¾-in. hose, \$6.

HOTBED SASH. Best quality. Packing at cost. Unglazed. 3 x 6 ft. for 10 x 12 glass.

Glazed and Painted. 3 x 6 ft., 10 x 12 glass.

Glazed and Painted. 3 x 6 ft., 10 x 12 extra heavy glass.

Prices on application.



HOTBED MATS for Covering Sashes. Padded, stitched and hemmed. Size, 76 in. by 76 in.; one mat covers two sashes. \$4 each, \$42 per doz.

KNIVES, Saynor's Celebrated English. Best make.

No. 196, \$2.50.

Buckhorn handled.

No. 343, \$2.55.

No. 400, \$3.00.

No. 401, \$2.75.

No. 403, \$3.00.

No. 80 Wood Handle Pruner, American, \$1.00.

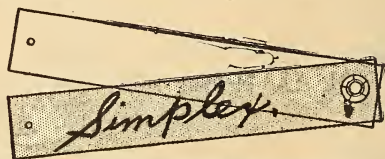
H. B. Budders, 2 blades, \$1.25.

LABELS, Wooden, Pot and Garden—

	Plain		Painted	
	100	1000	100	1000
4-in.....	\$0.15	\$0.90	\$0.15	\$1.20
4½-in.....	.15	1.00	.20	1.35
5-in.....	.20	1.15	.25	1.50
6-in.....	.25	1.45	.30	1.90
8-in.....	.55	4.55	.60	5.20
12-in.....	1.00	8.40	1.10	8.80
24-in.....	2.50			

Wooden, Notched Tree—

	Plain		Painted	
	100	1000	100	1000
3½-in. copper wire.....	\$0.35	\$2.25	\$0.40	\$3.00
6-in., no wire	.35	3.00	.45	3.30



Simplex Weatherproof Plant Labels.

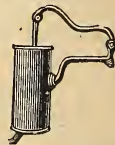
No. 1, 3½ x ½ in., 25 cts. doz., \$2.00 per 100.

No. 2, 4 x ¾ in., 50 cts., doz., \$4.00 per 100.

MASTICA GLAZING MACHINE.

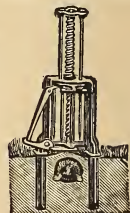
\$2.15

MASTICA. For use in the above machine. Gal. \$2.15.



MOLE TRAPS, Olmsted's Improved.

A short trap, suitable for lawns or cold frames. Made from good quality steel. Practically indestructible. \$1.50 each

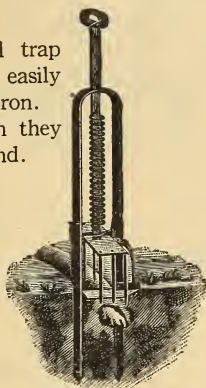


HORTICULTURAL IMPLEMENTS AND GARDEN REQUISITES—Continued

ALL NET CASH

POSTAGE, EXPRESS OR FREIGHT CHARGES TO BE PAID BY PURCHASER
PRICES NOT GUARANTEED, SUBJECT TO CHANGE

The Reddick. A powerful trap used principally on lawns, easily set. Made of galvanized iron. It will catch moles when they are quite deep in the ground. As the points of the pin are constantly in the ground, they cannot injure chickens or domestic animals. \$1 each, \$9.50 per doz.



PENCILS. For writing garden labels. Black, 5 cts. each, 50 cts. per doz. Wolf's Indelible. Imported from England. 15 cts. each, \$1.50 per doz.



PLANT DUSTERS, Dickey
Duster, for applying dry insecticides, 35 cts.

B-D SIFTER, also for applying dry powders, 75 cts.

PLANT STAKES, Round, Painted Green—

	Doz.	100
2 feet.....	\$0.50	\$3.50
3 feet.....	.80	6.00
4 feet.....	1.20	8.50
5 feet.....	1.35	9.50
5 feet, extra heavy.....	2.00	14.00
6 feet, extra heavy.....	2.25	16.00

Heavy Square, Tapering, Painted Green—

	Doz.	100
2 feet.....	\$0.35	\$2.25
3 feet.....	.70	5.50
4 feet.....	1.20	7.50
5 feet.....	2.25	16.00
6 feet.....	2.50	18.50

Dahlia Poles, Painted Green, White Tops—

	Doz.	100
2 feet.....	\$0.70	\$4.50
3 feet.....	.90	6.50
4 feet.....	1.20	9.00
5 feet.....	1.50	11.00
6 feet.....	1.80	13.00

Plant Stakes, Galvanized Wire, for Roses, etc.—

	Doz.	100
2 feet.....	\$0.30	\$2.00
3 feet.....	.40	2.25
4 feet.....	.50	2.50
5 feet.....	.60	2.75

Japanese Bamboo. Bundles of 100 only. 6 ft., \$1.75.

PRUNERS, Waters' Long-handled Tree.

	Each	Each
4 feet.....	\$0.75	8 feet.....\$1.15
6 feet.....	1.00	10 feet.....1.25
12 feet.....		1.35
Extra Blades.....		.25



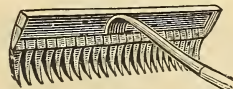
PRUNING KNIFE

Kansas. Automatic, strong, durable and a good time-saver. Has compound leverage, which greatly increases the power. \$3 each.

PUTTY FOR GLAZING, Twemlow's Old English. Can be used with machine or bulb. \$2 per gal. 5- and 10-gal. buckets.



RAFFIA, for tying. Price on application.



RAKES, English or Daisy. 16 teeth. \$3.

	Each
18 teeth.....	\$3.25
20 teeth.....	3.50

Hay Rake, 3 bow. Wood..... Each \$0.85

The "Lawn" King Rake.

Wood. Teeth very close.

Will not tear sod.

26-teeth size.....\$0.50

38-teeth size......60

Automatic Self-Cleaning Lawn

Rake. Backward motion clears the teeth..\$0.75

Steel Garden Rake.—

	Each	Each
10-teeth.....	\$1.00	14-teeth.....\$1.15
12-teeth.....	1.05	16-teeth.....1.25
18-teeth.....		1.45

Wire Lawn Rakes. Will not scratch the lawn.

With handle.....\$0.90

Wooden Lawn Rake. 3-bow......90



SAWS.

Little Giant Saw and Pruner Combined. The knife is operated with a cord, and is thrown back automatically with a spring. Without pole, \$2.65.



Saws, "One-edge" Pruning. Narrow blade, gets among close branches; upper edge smooth, does not cut the upper limb.

16-in.....	\$1.10
18-in.....	1.20
20-in.....	1.30

HORTICULTURAL IMPLEMENTS AND GARDEN REQUISITES—Continued
ALL NET CASH
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SAWS, Continued

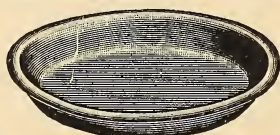
Adjustable-Blade Pruning. Can be adjusted and used at any angle; cuts cleanly and rapidly; light and strong. \$2.00.

**Lightning Double-Edge Pruning.**

	Each
16-in.....	\$1.00
18-in.....	1.25
20-in.....	1.40

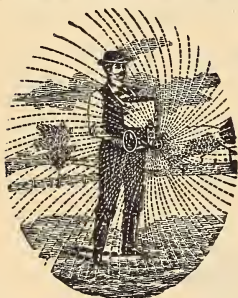
Saynor's Socket Pruning Saw.

18-in.....	\$1.75
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**SAUCERS, Flower-Pot, Indurated Wood-Fiber.**

Light and durable. Not porous; will protect tables on which plants stand.

	Each	Doz.
6-in.....	\$0.35	\$4.00
8-in.....	.40	4.50
10-in.....	.45	5.00
12-in.....	.55	6.00
14-in.....	.70	8.00

**SEEDERS, Cahoon.**

With practically a minimum of labor will sow all kinds of grass and grain seeds. Will throw heavy seeds 20 feet each side of operator. \$4.50 each.

Little Giant. A smooth-running, well-made, machine. \$1.50.

**SCYTHES.—**

English Lawn, Riveted Back. Light and thin, broad blades.

30-in.....	\$2.75
32-in.....	3.00
34-in.....	3.25

SCYTHE-SNATH, or Handle. Patent Loop Heel. \$1.25.

SCYTHE STONES.—

Round Dressed Talacre.	Each
Doz. \$2.....	\$0.20
Norton's Emery.....	.15

**SCISSORS****Grape-Thinning, English.**

6-in.....	\$1.25
7-in.....	1.50
8-in.....	1.75



Flower-gathering.

Will cut and hold the flower.

8-in.....	Each
	\$2.50

SHEARS.

Pruning. Imported.

\$1.90.



Watch-Spring. Perfection Pruning.

No. 2, 7½ in.....	Each
	\$2.50

Wiss Solid Steel Pruning.

Best American shear. Detachable blades.



	Each
9-in.....	\$3.00
10-in.....	3.25
Swedish Pruning. No. 538.....	2.25
American, Japanned Handle.....	.85
Ladies'. Nickel-plated. Pruning.	\$1.25 each.

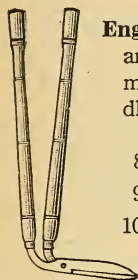
English Hedge.

	Plain	Notch
8-in.....	\$2.75	\$3.25
9-in.....	3.00	3.50
10-in.....	3.25	3.75



Grass "Trowel-Shank." American, full-polished, excellent steel. Trowel-like handles keep your knuckles out of the dirt. 95 cts. each.

HORTICULTURAL IMPLEMENTS AND GARDEN REQUISITES—Continued
ALL NET CASH
POSTAGE, EXPRESS OR FREIGHT CHARGES TO BE PAID BY PURCHASER
PRICES NOT GUARANTEED, SUBJECT TO CHANGE

SHEARS, Continued

English Border. For trimming grass around edges of paths, etc. Blades made of very high-quality steel. Handles 3 feet long.

	Each
8-inch.....	\$3.50
9-inch.....	4.00
10-inch.....	4.50



English Lopping. For lopping off limbs and branches of trees, not over 1¼ inches in diameter.

	Each
No. 3.....	\$5.25
No. 4.....	5.75

Double Cut Tree Trimmer (Swedish)

23-in.....	\$2.25
30-in.....	2.75

**SHOVELS—****Square Point.—**

	Each
No. 2. Regulation long or D-handle.....	\$1.60
Ames No. 2. Long or D-handle.....	1.85
Boy's. D-handle.....	1.25

**Round Point.**

No. 2. Long or D-handle.....	\$1.60
Ames No. 2. Long or D-handle.....	1.85

**SPADES.—****Square Point No. 2.**

	Each
Regulation long or D-handle.....	\$1.60
Ames No. 2. Long or D-handle.....	1.85
Boy's Spade. D-handle.....	1.50



SCOOP, Vegetable. The best shovel for handling potatoes, apples, etc. Will not cut; dirt sifts out. Light weight. \$2.75

SPRAY PUMPS. See p. 152-153.

SPRINKLERS.—

Rubber Plant. With large opening in neck; fills quickly; made of best white rubber.



	Each
Straightneck. 6 oz.....	\$0.70
10-oz.....	1.00
Angleneck, 6 oz.....	1.00
10-oz.....	1.25



Peck's Improved Lawn Sprinkler. May be attached to the hose and placed anywhere on the lawn. Stands 4 feet high and distributes water over an area from 60 to 100 feet. 4-arm. \$4.50 each; 8-arm, \$5.25 each.

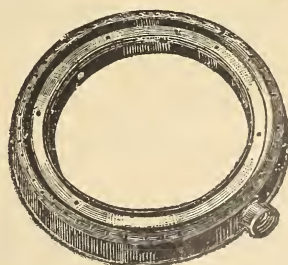
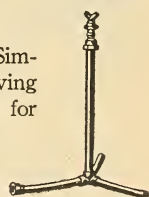
The "New" Comet. An adjustable revolving Sprinkler. Will sprinkle from 5 to 30 feet. Easily moved. The two arms may be set upright or at any angle. Weight, 4½ lbs. \$3.50 each.



Water Witch No. 3. Scatters the water in fine drops and evenly over a circular area of from 25 to 40 feet. 55 cts. each.



Water Witch No. 4. Similar to No. 3, but having a stand instead of spike for holding it upright. \$1.20.

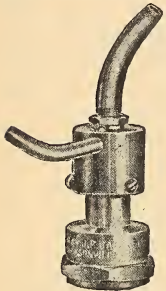


Ring Sprinkler. Has no revolving parts. The simplest Lawn Sprinkler. Made of good-quality brass. 85 cts. each.

HORTICULTURAL IMPLEMENTS AND GARDEN REQUISITES—Continued
ALL NET CASH

POSTAGE, EXPRESS OR FREIGHT CHARGES TO BE PAID BY PURCHASER
PRICES NOT GUARANTEED, SUBJECT TO CHANGE

SPRINKLERS, Continued



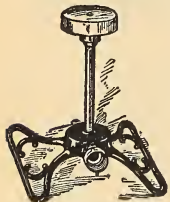
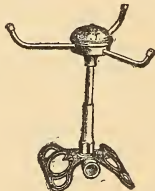
Automatic Lawn or Garden Sprinkler. Nickel-plated, on 4-ft. stand. Sharpened iron bottom for sticking into soil, and hose connections complete. \$3.50 each.



Hotchkiss Lawn Sprinkler No. 55. The most popular 3-arm Sprinkler on the market; made of brass, nickel-plated with malleable iron runners. Will cover an area 30 feet in diameter. \$1.50 each.

Hotchkiss Lawn Sprinkler

No. 65. This combination Sprinkler and fountain is beautiful as well as useful. Brass and nickel-plated, with malleable iron runners. Will cover an area 40 feet in diameter. \$2.25 each.



Shower Sprinkler. Mounted on holder for sprinkling lawns or can be attached directly to garden hose for washing sidewalks, etc. Cannot clog or get out of order; will not rust. Standard 3/4-in. hose connection. 10 in. high. Holder

and nozzle complete. \$2.25.

SYRINGES. See page 152.



TROWELS. Solid Steel. Cheapest trowel in the long run; light, strong, durable and perfect "hang," handle cannot come off.

Each
 5-in. blade.....\$0.55
 6-in. blade......60
 7-in. blade......65



Transplanting. A perfect trowel for transplanting and putting in bulbs; solid steel. 6-in. 20 cts.; 7-in., 25 cts.



THERMOMETERS.—

Oxidized Metal Scale, Polished Back.

A thermometer for house use, durable and well made. Tube magnifies and is easy to read.

Each
 12-in.....\$1.25

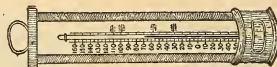
White Enameled Wood Plate, Nickel Trimmings.

Each
 No. 110, 7 1/2-in.....\$0.50
 No. 111, 9 1/2-in..... 1.00



Self-Registering, Polished Back. For indoor use; will register extremes of heat and cold; made of hard wood. A magnet is used to draw back the indicating points.

Each
 12-in.....\$2.50



Self-Registering, Japanned Case. The same as preceding with tin case for outside use. Enameled case and porcelain scale.

Each
 12-in.....\$6.50

Japanned Tin Case. A cheap thermometer for greenhouse use; all metal. 10-in., 60 cts. each.

Mercury Bath or Hotbed. New, Quick-acting; all of metal. Cannot rust or break. \$2.25.

Hotbed and Mushroom Bed. Brass-tipped point incloses the temperature bulb; it is simply thrust into the soil or bed. Best grade (made of box-wood), \$2.25.

Made of ordinary wood, \$1.50.

TOMATO SUPPORTS.—



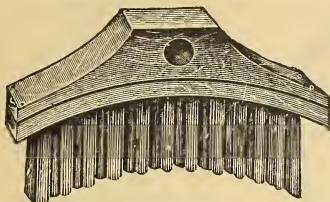
Wood. 36 in. high, 16 in. wide. Solidly made of clear, straight wood. Can be taken apart and stored when not in use. Will last for years. 25 cts. each, \$2.50 per doz.

HORTICULTURAL IMPLEMENTS AND GARDEN REQUISITES—Continued

ALL NET CASH

POSTAGE, EXPRESS OR FREIGHT CHARGES TO BE PAID BY PURCHASER
PRICES NOT GUARANTEED, SUBJECT TO CHANGE

TORCH, Asbestos. Very useful and simple. The only sure way to get rid of caterpillar nests on trees. Large size, 50 cts. each.



TREE BRUSH, Wire. For older trees; can be used with long handle. Complete, \$2.25.

TREE SCRAPER. For scraping diseased bark from trees, removing insect eggs, etc. 75 cts. each.

TREE-TUBS, New York Style

Made of cedar timber, painted green.



No.	Diam.	Height	Each
1	12 in.	10 $\frac{3}{8}$ in.	\$2.15
2	13 in.	12 $\frac{3}{4}$ in.	2.75
3	14 $\frac{1}{2}$ in.	14 $\frac{3}{4}$ in.	3.40
3 $\frac{1}{2}$	16 $\frac{1}{2}$ in.	15 $\frac{3}{4}$ in.	4.50
4	19 $\frac{1}{2}$ in.	16 $\frac{5}{8}$ in.	4.90
5	22 $\frac{1}{2}$ in.	18 $\frac{1}{2}$ in.	6.40

TWINE, Green Smilax. In balls 15 cts. each; box of 12 balls, \$1.20.

Florists' Linen (Silkline)—Green or Gray. 18 cts. per spool; box of 1 doz. spools \$1.75.

VASES, Flower. Indurated wood fiber; for cut flowers.

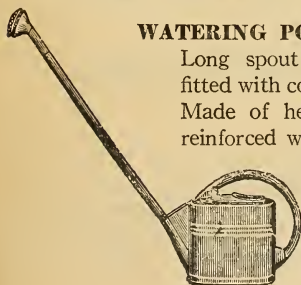


Diam.		Depth			
No.	In.	In.	Each	Doz.	
3	.4	6..	\$1.00	\$10.50	
2	.4 $\frac{1}{2}$	9..	1.35	13.00	
1	.5 $\frac{1}{2}$	10..	1.50	15.00	
0	.8	13..	1.75	18.00	

For receptacles for holding above, see Saucers, p. 148.

WATERING POT, French Model.

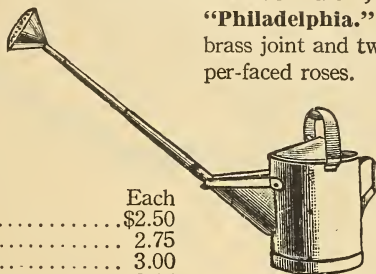
Long spout, with brass joints, fitted with coarse and fine nozzles. Made of heavy galvanized iron reinforced with steel rim.



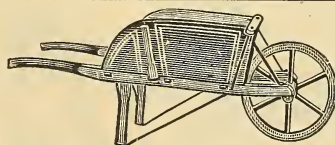
	Each
6-qt.	\$2.75
8-qt.	3.00
10-qt.	3.25
12-qt.	3.50

WATERING POTS, Continued

WATERING POT, The "Philadelphia." With brass joint and two copper-faced roses.



	Each
6-qt.	\$2.50
8-qt.	2.75
10-qt.	3.00
12-qt.	3.25



WHEELBARROW. Thorburn's Garden. None better made. Iron braced and bolted. Steel or wood wheel. No. 3 made with steel wheel only.

	Each
No. 3, Small	\$5.75
No. 4, Medium	6.50
No. 5, Large	7.00

WEEDERS, Cleveland Lawn. Chisel blade; trigger holds weeds so they can be pulled out. 85 cts. each.



Excelsior Finger. Useful for loosening and pulverizing the soil. 10 cts. each.

Lang's Hand. A strap over the finger keeps the tool in the hand while operator's fingers are left free. 20 cts. each, \$2.25 per doz.

Eureka Hand. The prongs of solid forged steel are thin and long; fine for loosening soil. Short handle. 50 cts. each.



Magic. Combined Weeder and hoe. Fingers of tempered steel. The hoe is useful in loosening hard ground. 40 cts. each, \$4.25 per doz.

Jimmy Weeder..... each...\$0.25

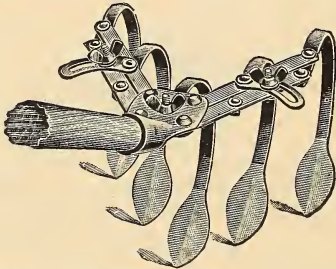
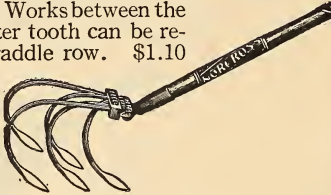
HORTICULTURAL IMPLEMENTS AND GARDEN REQUISITES—Continued

ALL NET CASH

POSTAGE, EXPRESS OR FREIGHT CHARGES TO BE PAID BY PURCHASER
PRICES NOT GUARANTEED, SUBJECT TO CHANGE

WEEDERS, Continued

Norcross Adjustable Cultivator. Made of first class material, teeth forged from solid steel. Can be entirely taken apart, every piece being detachable. Works between the rows, or center tooth can be removed to straddle row. \$1.10 each.



PULL EASY CULTIVATOR.

A very handy implement. Five prong adjustable, \$1.25.

FLOWER POTS



Prices subject to change without notice.

Best make. Of sizes 2½ to 8 in. we do not sell less than 100; of larger sizes not less than a dozen. *We pack carefully in the best manner, but will not be responsible for breakage in transit.*

Packing and crating extra at cost.

Size	100
2½-in.....	\$2.40
3 -in.....	2.50
4 -in.....	3.75
5 -in.....	6.75
6 -in.....	10.50
7 -in.....	16.50
8 -in.....	24.00
10 -in. Doz. \$7.00.....	50.00
12 -in. Doz. \$15.00.....	98.00

BULB PANS.

	Doz.
8-in.....	\$3.60
10-in.....	6.60
12-in.....	15.00

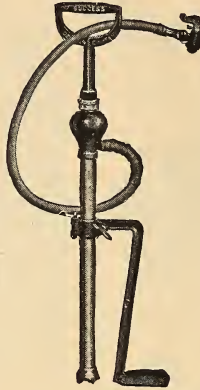
All prices subject to change without notice.

NEPONSET WATERPROOF PAPER FLOWER POTS

Diam.	Doz.	100	1000
2½-in.....	\$0.10	\$0.60	\$4.50
3 -in.....	.15	.75	7.00
3½-in.....	.20	1.25	8.25
4 -in.....	.25	1.40	9.50
5 -in.....	.30	1.60	14.50
6 -in.....	.50	2.25	20.00

SPRAY PUMP, BUCKET

Being made of brass, it is not affected by the arsenites used for spraying. Easily operated; throws a solid stream 50 feet. It is provided with a combination nozzle, and also with a sprinkler for flowers. For spraying large trees, an 8-foot pipe extension is supplied for 60 cts. extra. This pump is also valuable for washing windows. \$4.75.

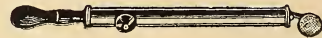


SYRINGES

No. A. One spray rose and one jet. Length of barrel, 12 in., diam. 1 in., \$2.75 each.



No. G. One spray rose and one stream jet, side attachment and elbow-joint for sprinkling under foliage. Length of barrel 16 in., diam., 1½ in., \$5.25 each.



No. H. Sheet brass with fixed spray rose; length of barrel 16 in., diam. 1½ in. \$3.25 each.



No. 2. One coarse and one fine spray rose, and one jet, side attachment. \$4.75 each.



No. 3. Large size. Has one stream and two spray roses, with side pieces on barrel. Length of barrel, 18 in., diam. 1½ in. \$7 each.



No. 4. Large size. Has jet and three rose sprays, two of which are kept in the handle. Length of barrel, 18 in., diam. 1½ in. \$7.50 each.

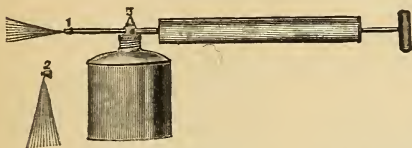


No. 6. Large size. Has one spray rose and goose-neck angle joint, turning in all directions for washing the under surface of the leaves of plants and flowers, cleansing them from insects, etc. Length of barrel, 18 in., diam. 1½ in. \$8.50 each.

HORTICULTURAL IMPLEMENTS AND GARDEN REQUISITES—Continued

ALL NET CASH

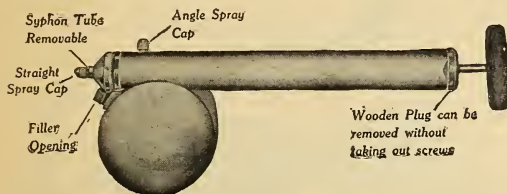
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PRICES NOT GUARANTEED, SUBJECT TO CHANGE



THE ROBERTSON COMPRESSED AIR SPRAYERS

Easily operated, requiring half the labor of ordinary sprayers.

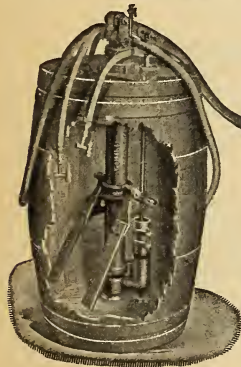
Galvanized Tank.....\$1.25
Brass Tank.....2.00



AUTO SPRAYER

Operates continuously on both the up and down stroke, throwing a fine, misty spray.

No. 25A. 1 qt. all tin.....\$0.90
No. 25C. 1 qt. tin pump, brass tank.....1.25



"POMONA" SPRAY PUMP

Of large capacity and exceptionally powerful. It is easily operated by one person when necessary, but is especially built for spraying with two leads of hose. The air-chamber is rather large, and enough air is stored up for a continuous spray for some time. Plunger, valves and all working parts are made of very good quality brass. It can be quickly inserted or removed from the barrel. Its paddle agitator is far superior to the old return-discharge method of stirring, adjustable to different-sized barrels. Pump only with agitator, \$23.50.

Outfit C. Pump, agitator, 15 feet of discharge hose and spray nozzle, \$28.00; fitted to barrel, \$33.00.

Outfit D. Pump, agitator, two leads of discharge hose and two spray nozzles, \$31.00; fitted to barrel, \$36.00.

"FRUITALL" SPRAY PUMP

Same as Pomona, but smaller. Pump with agitator and one lead of 15 feet of $\frac{3}{8}$ -in. discharge hose, with spray nozzle, \$18.00; fitted to barrel, \$23.00.

Prices subject to change.

KNAPSACK SPRAY PUMP For Vineyard, Orchard and Field Service

To be Carried on Back.

Made entirely of brass and copper, with ball valves and metal plunger all easily accessible. Capacity about 5 gals.

Galvanized \$23.00; Copper, \$28.00.

The "Velvetlawn" Grass Seeder

18 inches wide

The use of a machine in the seeding of new lawns or grass plots, the re-seeding of old lawns, the drilling of grass seeds into putting-greens, and the renewing of grass plots every month or so has proved a decided success wherever it has been tried. The machine to do this work is the "Velvetlawn" Grass Seeder.

Price \$25.00 net cash.

"AUTO-SPRAY" SPRAY PUMP

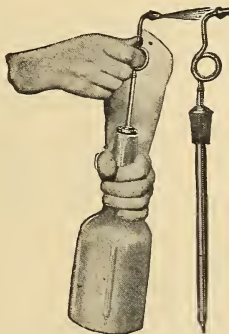
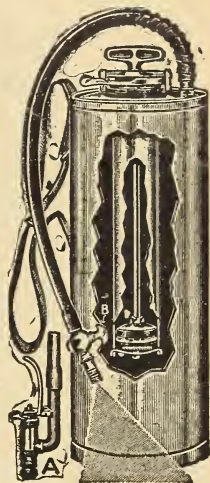
A self-operating Sprayer of simple construction, durable, easy to carry and to work. Made of galvanized iron or solid brass, with 4-ply rubber hose. For spraying trees, cleaning windows, etc. A perfect pump.

With brass tank auto-pop nozzle, hose and fittings, \$12.00

With galvanized iron tank auto-pop nozzle, hose and fittings, \$8.00.

Brass extension pipes, 2 feet long, 70 cts.

Auto-Pop nozzle, if sold alone, \$2.00.



BOTTLE SPRAYER

A small, nickel-plated syringe or sprayer, to be placed in a bottle; used for spraying with any kind of fumigating liquid or insecticide, \$1.25.

Water Barrel, Truck and Barrel

Can Be Made Into Sprinkler, Leaf-Rack and Hand-Cart

The barrel is easily disconnected from the truck, either while full or empty. The following extra attachments can be furnished if required: (1) Box with trunnions and spring catch, forming a dumping hand-cart. (2) Sprinkler for watering walks and lawns. (3) Leaf-rack



Used as a Hand-Cart



Used as a Leaf-Rack

Truck and barrel, wooden wheels, 3-in. tires....
Truck and barrel, steel wheels, 3-in. tires.....
Sprinkler attachment, extra.....
Hand-cart box, extra.....
Leaf-rack, extra.....
Extra trunnions, per pair.....
Truck and trunnions, wooden wheels, without barrel.....
Truck and trunnions, steel wheels, without barrel

Prices on Application

HORTICULTURAL IMPLEMENTS AND GARDEN REQUISITES—Continued

ALL NET CASH

POSTAGE, EXPRESS OR FREIGHT CHARGES TO BE PAID BY PURCHASER
PRICES NOT GUARANTEED, SUBJECT TO CHANGE

The Thorburn Century Ball-Bearing Lawn Mower

Thorburn's Century Ball-Bearing Lawn Mower is a marvel of simplicity, as one screw adjusts both bearings. It has a simple, self-adjusting device, which keeps the bearings properly adjusted for a long time, and a double interchangeable ratchet. By shifting handle bails from the front to the rear lugs on the side frame, the Mower can be made to cut terraces and steep banks.

While cheaper mowers are sold all over, they will be found far dearer in the end. It pays to get a good mower.

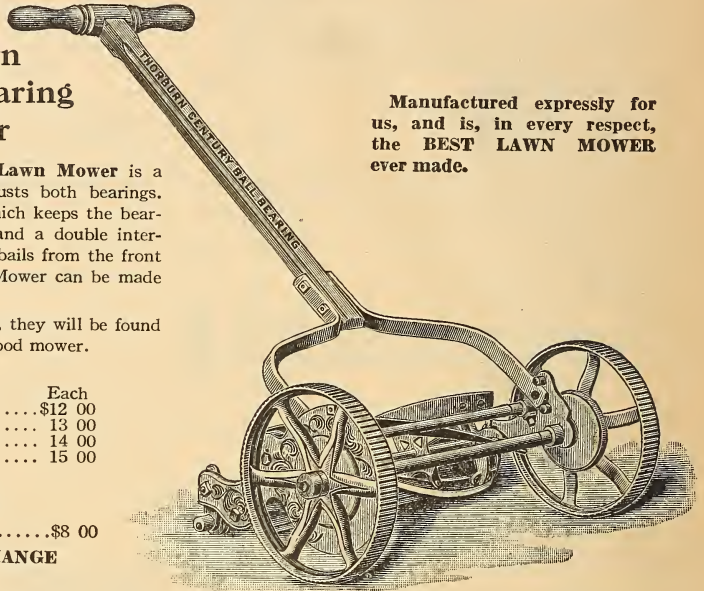
Net Prices

	Each
14-in. cut	\$12 00
16-in. cut	13 00
18-in. cut	14 00
20-in. cut	15 00

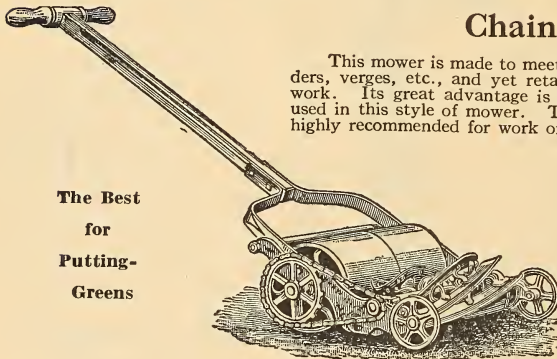
Lawn Trimmer

8-inch\$8 00

ALL PRICES SUBJECT TO CHANGE
WITHOUT NOTICE



Manufactured expressly for us, and is, in every respect, the **BEST LAWN MOWER** ever made.



The Best
for
Putting-
Greens

Chain Roller or Golf Mower

This mower is made to meet the demand for a machine that will more perfectly cut borders, verges, etc., and yet retain all the other features necessary in a mower for general work. Its great advantage is the substitution of a bicycle chain for the gears generally used in this style of mower. This reduces the friction to a minimum. The machine is highly recommended for work on putting-greens.

Net Prices

	4 blades
12-in. cut	\$15 00
14-in. cut	17 00
16-in. cut	19 00
18-in. cut	21 00

Grass-Catcher

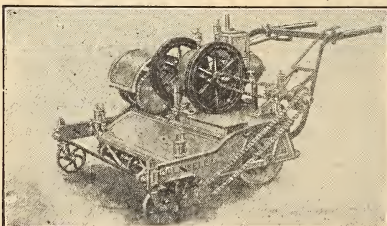
14-in. cut	\$2 00
16-in. cut	2 15
18-in. cut	2 25
20-in. cut	2 50

Improved Horse Lawn Mower

This well-known standard mower has side draft attachment, to enable the horse to walk on the cut grass only, and casters-rollers which will not mark the lawn. Evenness of cut is assured by an adjustment which raises or lowers the two sides at the same time by means of a simple lever movement the same lever serves the purpose of raising the knives from the ground when driving over gravel walks or roads.

NET PRICES, free on board, New York

	Each		Each
25-in. cut, no shafts, 4 blades.....	\$59 00	35-in. cut, complete, 4 blades.....	\$108 00
30-in. cut, complete, 4 blades.....	88 00	40-in. cut, complete, 4 blades.....	136 00



Coldwell's Combination Roller and Motor Lawn Mower

This machine cuts a swath 40 inches wide, is equipped with a two-horse power motor capable of propelling the mower through almost any height of lawn grass, and up grades as steep as 25 per cent. Price on application.

HORTICULTURAL IMPLEMENTS AND GARDEN REQUISITES—Continued
ALL NET CASH
POSTAGE, EXPRESS OR FREIGHT CHARGES TO BE PAID BY PURCHASER
PRICES NOT GUARANTEED, SUBJECT TO CHANGE

Horse Boots

Prevent Cutting up the Turf

Made to order only of very strong, heavy leather, closely riveted. Price per set of four, \$12.00.

Water-Ballast Roller

Roller-Bearing. Can Be Filled without Turning on End, with Either Water or Sand
(Patented)

Suitable for Lawns, Tennis-Courts and Putting-Greens, Seams are Electricwelded, not Riveted.

One- or Two-section "Water Weight" Rollers without counter-balancing handle-weights.

No.	Diam. in.	Length in.	Sec- tions	Weight empty lbs.	Weight filled with water, lbs.	Weight filled with sand, 50% heavier	Price
WB3	14	20	1	60	175	"	\$13 00
WB5	18	24	1	85	300	"	15 00
WB7	24	24	1	110	500	"	20 00
WB11	18	24	2	100	300	"	21 00
WB13	24	32	2	150	600	"	28 00

If handle-weight is desired add \$1.50 to above prices.

THE MAKEGOOD GARDEN PLOW HAYWOOD NO. 1

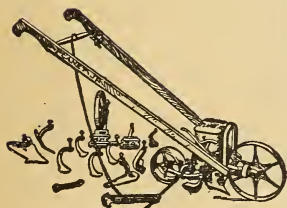
A Single Wheel Cultivator, Plow, Rake and Hoe
\$5.00 Complete

"Planet Jr." Farm and Garden Tools

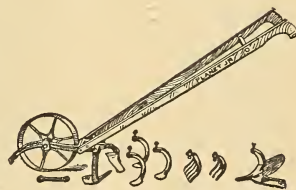
Illustrated catalogue describing fully many other "Planet Jr." tools mailed on application. Prices are quoted net F. O. B. New York.

"Planet Jr." No. 16 Single-Wheel Hoe, Cultivator, Rake and Plow

This Single-Wheel hoe has a very full set of tools, several of them being of new design, such as have been found to work in the very best manner. It has 11-inch wheel, with broad face; is very light, strong and easy running. It has adjustable handles and quick-change frame.



"Planet Jr." No. 4



"Planet Jr." No. 16

EQUIPMENT

1 7-inch Rake

1 4-inch Rake

Weight, 27 lbs.

Price \$10.50

1 Large Garden Plow

1 Leaf Guard

2 6-inch Hoes
3 Cultivator Teeth

"Planet Jr." No. 17 Single-Wheel Hoe

3 Steel Cultivator Teeth

Weight, 22 lbs.

Price, \$8.75

1 Leaf Lifter

2 6-inch Hoes

		Each
"Planet Jr." No. 3.	Hill and Drill Seeder. Efficient hill dropping outfit. Complete	\$18 50
"Planet Jr." No. 4.	Seeder, Wheel Hoe, Cultivator and Plow. Complete	19 50
As a seeder only		15 50
"Planet Jr." No. 11.	Double-Wheel Hoe, Cultivator and Plow. Invaluable for use on all small crops.	16 00
"Planet Jr." No. 12.	Double-Wheel Hoe, Cultivator and Plow. Identical with No. 11, except fewer attachments.	12 50
"Planet Jr." No. 13.	Double-Wheel Hoe. Same as No. 12, but Hoe only	9 00
"Planet Jr." No. 18.	Single-Wheel Hoe. Equipped with Hoes only	6 25
"Planet Jr." No. 25.	Combined Hill and Drill Seeder, Double-Wheel Hoe, Cultivator and Plow. Large enough for field use	23 00
"Planet Jr." Twelve-Tooth Harrow, Cultivator and Pulverizer. Complete		17 50
With Lever Wheel only		14 50
Without Wheel or Pulverizer		11 25
"Planet Jr." No. 31.	Combined Drill Seeder and Single-Wheel Hoe. Complete	13 00
No. 31D as a drill seeder only		10 50
"Planet Jr." No. 33.	Single-Wheel Hoe (without seeder)	6 50

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Thorburn's List of Vegetable Seeds

That May Be Sown in Each Month from February to September in the Climate of New York

FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER
SOW IN HOTBED Early Beans Broccoli Early Cabbage Forcing Carrot Early Celery Cucumber Eggplant Early Lettuce Parsley Pepper Radish Tomato	SOW IN HOTBED Early Beans Early Beets Brussels Sprouts Early Cabbage Forcing Carrot Cauliflower Celery Eggplant Kohlrabi Lettuce Parsley Pepper Radish Tomato	SOW IN HOTBED Cucumber Eggplant Melon Pepper Tomato IN OPEN GROUND Asparagus English Beans Beets Brussels Sprouts Early Cabbage Carrot Cauliflower Celery Sweet Corn	IN OPEN GROUND Artichoke Asparagus Beans, Bush and Running Beets Brussels Sprouts Carrot Cauliflower Celery Sweet Corn Cress Cucumber Kohlrabi Leek Lettuce Melon Onion Parsley Parsnip Peas Potatoes Radish Salsify Spinach Early Turnip All Herbs	IN OPEN GROUND Beans, Lima and all other sorts Beets Broccoli Brussels Sprouts Late Cabbage Carrot Cauliflower Sweet Corn Cress Cucumber Endive Kale Kohlrabi Lettuce Melon Nasturtium Okra Early Peas Pumpkin Radish Spinach Squash White F. Turnip Rutabaga	IN OPEN GROUND Beans Beets Carrot Sweet Corn Cress Cucumber Endive Gherkin Kale Kohlrabi Lettuce Nasturtium Okra Early Peas Pumpkin Radish Spinach Squash White F. Turnip Rutabaga	IN OPEN GROUND Beans, Bush Tuberous Chervil Corn Salad Cucumber Endive Lettuce Welsh Onion Early Peas Radish Spinach Turnip	IN OPEN GROUND Cabbage for cold-frames Cauliflower for cold-frames Tuberous Chervil Corn Salad Cress Siberian Kale Lettuce Mustard Winter Radish Spinach Turnip Sweet Peas
THORBURN'S Early Jersey Wakefield Cabbage	IN OPEN GROUND Beans, B. Windsor Beets Carrot Leek Onion Peas Potatoes Radish Spinach Early Turnip	IN OPEN GROUND Cress Kohlrabi Lettuce Onion Parsley Parsnip Peas Potatoes Radish Spinach Early Turnip	IN OPEN GROUND Brussels Sprouts Cauliflower Celery Sweet Corn Cress Cucumber Kohlrabi Leek Lettuce Melon Onion Parsley Parsnip Peas Potatoes Radish Salsify Spinach Early Turnip All Herbs	IN OPEN GROUND Beans, Lima and all other sorts Beets Broccoli Brussels Sprouts Late Cabbage Carrot Cauliflower Sweet Corn Cress Cucumber Endive Kale Kohlrabi Lettuce Melon Nasturtium Okra Early Peas Pumpkin Radish Spinach Squash White F. Turnip Rutabaga	IN OPEN GROUND Beans Beets Carrot Sweet Corn Cress Cucumber Endive Gherkin Kale Kohlrabi Lettuce Nasturtium Okra Early Peas Pumpkin Radish Spinach Squash White F. Turnip Rutabaga	IN OPEN GROUND Beans, Bush Tuberous Chervil Corn Salad Cucumber Endive Lettuce Welsh Onion Early Peas Radish Spinach Turnip	IN OPEN GROUND Cabbage for cold-frames Cauliflower for cold-frames Tuberous Chervil Corn Salad Cress Siberian Kale Lettuce Mustard Winter Radish Spinach Turnip Sweet Peas
						THORBURN'S GILT EDGE CAULIFLOWER	THORBURN'S IMPROVED BIG BOSTON LETTUCE

J. M. THORBURN & CO., SEEDSMEN, NEW YORK

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